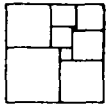
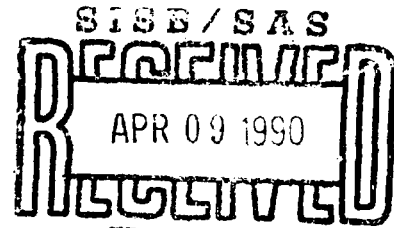


REDACTED



NUS
CORPORATION

1927 LAKESIDE PARKWAY
SUITE 614
TUCKER, GEORGIA 30084
404-938-7710



EPA - REGION IV
ATLANTA, GA 586-4-0-47

April 4, 1990

Mr. A.R. Hanke
Site Investigation and Support Branch
Waste Management Division
Environmental Protection Agency
345 Courtland Street, N. E.
Atlanta, Georgia 30365

Subject: Preliminary Assessment
Fort Oglethorpe Drum Site
Fort Oglethorpe, Catoosa County, Georgia
TDD No. F4-8911-86
EPA ID No. GAD981929258
Revision 0

May 4, 1990

NFRAP

Received 7/7/90

EPA

concur
Michael E. Williams
EPA

Dear Mr. Hanke:

Enclosed please find two copies of the Preliminary Assessment for Fort Oglethorpe Drum Site located in Fort Oglethorpe, Georgia.

If you have any questions or comments, please contact me at NUS Corporation.

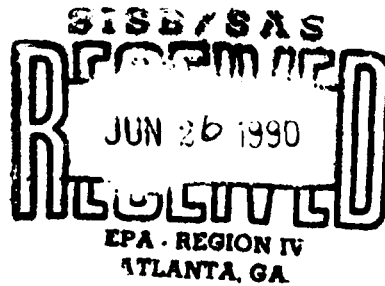
Very truly yours,

Bob Donaghue

Bob Donaghue
Project Manager

BD/jec

Enclosure (2)



R-586-3-0-30

PRELIMINARY ASSESSMENT
FORT OGLETHORPE DRUM SITE
FORT OGLETHORPE, CATOOSA COUNTY, GEORGIA
EPA ID #: GAD981929268

Prepared Under
TDD No. F4-8911-86
CONTRACT No. 68-01-7346

Revision 0

FOR THE

WASTE MANAGEMENT DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

NFRAP
5/4/90
Mario B. [Signature]
EPA

APRIL 4, 1990

NUS CORPORATION
SUPERFUND DIVISION

Prepared By

Bob Donaghue
Bob Donaghue
Project Manager

Reviewed By

James B. [Signature]
Professional
Geologist

Approved By

Phil Blackwell
Phil Blackwell
Regional Project Manager

PRELIMINARY ASSESSMENT

REVISION 0

Date: April 4, 1990

Prepared: Bob Donaghue
NUS Corporation, FIT 4; Atlanta, Georgia

Site: Fort Oglethorpe Drum Site
Battlefield Parkway
Fort Oglethorpe, Catoosa County, Georgia
EPA ID No. GAD981929268
TDD No. F4-8911-86

Recommendation and Justification

FIT 4 recommends that no further remedial action be planned for the Fort Oglethorpe Drum Site. This recommendation is based on the lack of significant targets within a 4-mile radius of the facility and because the area is now allegedly clean.

Site History

Fort Oglethorpe Drum Site is located south of Battlefield Parkway behind the Battlefield Elementary School in Fort Oglethorpe, Catoosa County, Georgia (Ref. 1). The geographic coordinates are 34°56'35"N latitude and 85°13'36.0"W longitude (Ref. 2). The area of the dump is located near a recreational field and playground at the elementary school. In 1985, EPA conducted an emergency removal of 33 drums of waste at the site. Some spillage occurred at the drum location (Ref. 1). There is no record of removal of contaminated soil from the spill area around the drums.

Waste Characteristics

Approximately 33 drums were found at the site; 30 contained a nonhazardous latex material and were disposed of at the Catoosa County Landfill. Two drums contained red chromium-based dyes, and another contained a diethyl phthalate-based glue. These drums were picked up by Chemical Waste Management (Refs. 3, 4).

Groundwater Pathway

The Fort Oglethorpe Drum Site is in the Valley and Ridge Physiographic Province and nonglaciated central region hydrogeologic setting, which consists of complexly folded and faulted sedimentary rocks. Groundwater occurs in interconnected openings in the bedrock, as well as in pore spaces of the residual soil on top of the bedrock. The aquifer system in this area is the unconfined limestones of the Chickamauga Supergroup, the Newala Limestone, and the Knox Group, and overlying water in the residual soil. These formations are interconnected through fractures and solution pathways, as well as through the residual soil above the formations. Sedimentary layers of those formations comprise a thickness of about 4000 feet although the layers are tilted at an angle. Groundwater in this area occurs at about 45 feet below land surface (Ref. 5, plates 1, 6, and 14). Hydraulic conductivity values for the residual soil range from 1×10^{-5} to 1×10^{-6} cm/sec (Ref. 6, p. 29). The net annual rainfall for this area is 13 inches, and the 1-year, 24-hour rainfall is 3.25 inches (Ref. 7, pp. 37, 63; 8, p. 93).

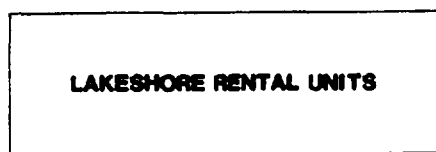
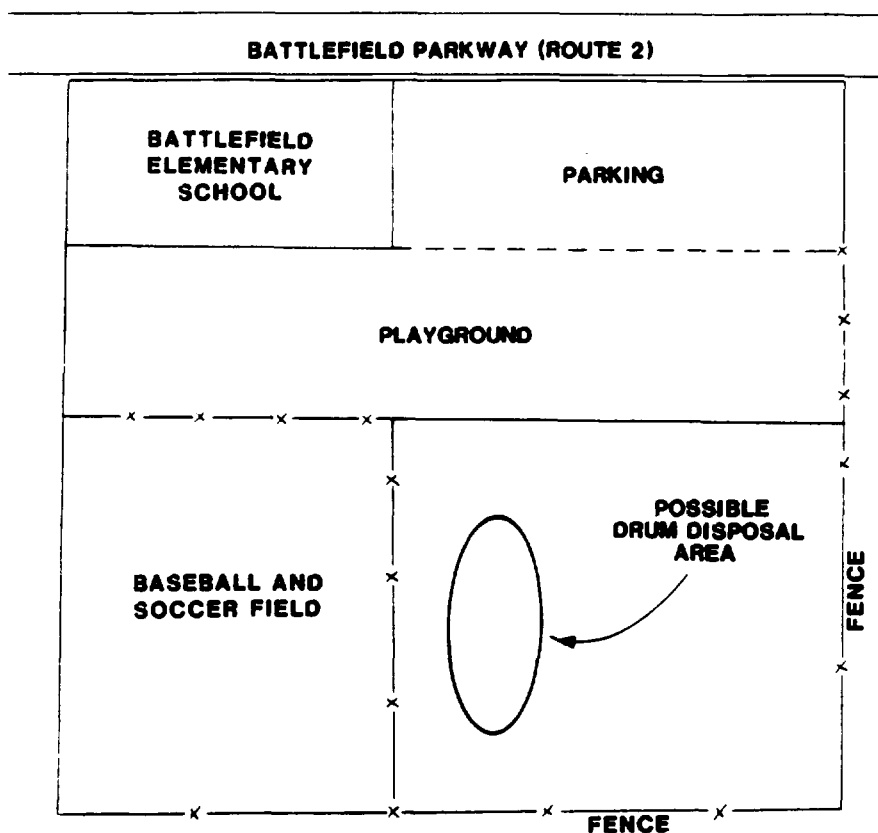
Residents within a 4-mile radius of the Fort Oglethorpe Drum Site are served by one of four municipal water systems: the Catoosa County Water System, the Tennessee-American Water Company, the Walker County Water System, or the Fort Oglethorpe Water Company. None of these water systems have groundwater wells within a 4-mile radius of the dump (Refs. 9, 10, 11, and 12). No residents within a 4-mile radius of the dump are believed to obtain water from private wells (Ref. 13).

Surface Water Pathway

Runoff from the former drum site flows approximately 1100 feet east overland and enters West Chickamauga Creek, which flows north into Nickajack Lake beyond the 15-mile surface water pathway (Ref. 2). There are no potable water intakes along the pathway (Refs. 9, 10, 11, 12). Waters of this area have been classified as primary and secondary trout waters (Ref. 14). No critical habitats for endangered or threatened species have been designated in this area (Ref. 15).

Air Pathway

The air pathway is not of significant concern, since the hazardous chemicals have been removed from the area (Ref. 1). Fugitive dust from contaminated soil along the drainage pathway may be of minor significance.



APROX. SCALE
0 200 FEET

**SITE LAYOUT MAP
DRUM SITE
FORT OGLETHORPE, GEORGIA**



HRS2 Concerns

The former drum site is located within the playground area of the Battlefield Elementary School. The nearest residences are an apartment complex located about 500 feet south of the site (Ref. 16).

CERCLA ELIGIBILITY QUESTIONNAIRE

Site Name: FORT OGLETHORPE DRUM SITE

City: FORT OGLETHORPE

State: GEORGIA

EPA ID Number: GAD981929208

I. CERCLA ELIGIBILITY

Yes

No

Did the facility cease operations prior to November 19, 1980?

X

If answer YES, STOP, facility is probably a CERCLA site.

If answer NO, Continue to Part II.

II. RCRA ELIGIBILITY

Yes

No

Did the facility file a RCRA Part A application?

X

If YES:

1. Does the facility currently have interim status?

X

2. Did the facility withdraw its Part A application?

3. Is the facility a known or possible protective filer?
(facility filed in error)

X

4. Type of facility:

Generator _____ Transporter _____ Recycler _____
TSD (Treatment/Storage/Disposal) _____

Does the facility have a RCRA operating or post closure permit?

X

Is the facility a late (after 11/19/80) or non-filer that has been identified by the EPA or the State? (facility did not know it needed to file under RCRA)

X

If all answers to questions in Part II are NO, STOP, the facility is a CERCLA eligible site.

If answer to #2 or #3 is YES, STOP, the facility is a CERCLA eligible site.

If answer #2 and #3 are NO and any OTHER answer is YES, site is RCRA, continue to Part III.

III. RCRA SITES ELIGIBLE FOR NPL

Yes

No

Has the facility owner filed for bankruptcy under federal or state laws?

Has the facility lost RCRA authorization to operate or shown probable unwillingness to carry out corrective action?

Is the facility a TSD that converted to a generator, transporter or recycler facility after November 19, 1980?

RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site Name: Fort Oglethorpe Drum Site
City, County, State: Fort Oglethorpe, Catoosa County, Georgia
EPA ID No.: GAD981929268
Person responsible for form: Bob Donaghue
Date: 2/7/90

Air Pathway

Describe any potential air emission sources onsite: None

Identify any sensitive environments within 4 miles: Chickamauga and Chattanooga National Military Park

Identify the maximally exposed individual (nearest residence or regularly occupied building - workers do count): Battlefield Elementary School

Groundwater Pathway

Identify any areas of karst terrain: None

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: None

Do significant targets exist between 3 and 4 miles from the site? No

Is the AOC a sole source aquifer according to Safe Drinking Water Act? (i.e. is the site located in Dade, Broward, Volusia, Putnam, or Flagler County, Florida): No

Surface Water Pathway

Are there intakes located on the extended 15-mile migration pathway? No

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway? West Chickamauga Creek is a secondary trout stream

Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher? Unknown

Is the site accessible to non-employees (workers do not count)? Yes

Are there residences, schools, or day care centers onsite or in close proximity? Elementary school at site location

Are there barriers to travel (e.g., a river) within one mile? No

HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

FORT OGLETHORPE DRUM SITE
EPA SITE NUMBER GAD981929268
FORT OGLETHORPE
CATOOSA COUNTY, GA
EPA REGION: 4

SCORE STATUS: IN PREPARATION

SCORED BY BOB DONAGHUE
OF NUS CORPORATION
ON 03/15/90

DATE OF THIS REPORT: 04/03/90
DATE OF LAST MODIFICATION: 04/03/90

GROUND WATER ROUTE SCORE :	2.98
SURFACE WATER ROUTE SCORE:	5.31
AIR ROUTE SCORE :	0.00
<hr/>	
MIGRATION SCORE :	3.52

HRS GROUND WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
DEPTH TO WATER TABLE	45 FEET		
DEPTH TO BOTTOM OF WASTE	6 FEET		
DEPTH TO AQUIFER OF CONCERN	39 FEET	2	4
PRECIPITATION	52.0 INCHES		
EVAPORATION	39.0 INCHES		
NET PRECIPITATION	13.0 INCHES	2	2
PERMEABILITY	1.0×10^{-5} CM/SEC	1	1
PHYSICAL STATE		3	3
TOTAL ROUTE CHARACTERISTICS SCORE:			10
3. CONTAINMENT		3	3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE: CHROMIUM			18
WASTE QUANTITY CUBIC YDS	0		
DRUMS	33		
GALLONS	0		
TONS	0		
TOTAL	8 CU. YDS	1	1
TOTAL WASTE CHARACTERISTICS SCORE:			19
5. TARGETS			
GROUND WATER USE		1	3
DISTANCE TO NEAREST WELL AND	25000 FEET MATRIX VALUE	0	0
TOTAL POPULATION SERVED	0 PERSONS		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			3
GROUND WATER ROUTE SCORE (Sgw) = 2.98			

HRS SURFACE WATER ROUTE SCORE

CATEGORY/FACTOR	RAW DATA	ASN. VALUE	SCORE
1. OBSERVED RELEASE	NO	0	0
2. ROUTE CHARACTERISTICS			
SITE LOCATED IN SURFACE WATER	NO		
SITE WITHIN CLOSED BASIN	NO		
FACILITY SLOPE	1.1 %		
INTERVENING SLOPE	1.4 %	0	0
24-HOUR RAINFALL	3.3 INCHES	3	3
DISTANCE TO DOWN-SLOPE WATER	1100 FEET	2	4
PHYSICAL STATE	3		3
TOTAL ROUTE CHARACTERISTICS SCORE:			10
3. CONTAINMENT	3		3
4. WASTE CHARACTERISTICS			
TOXICITY/PERSISTENCE:CHROMIUM			18
WASTE QUANTITY CUBIC YDS	0		
DRUMS	33		
GALLONS	0		
TONS	0		
TOTAL	8 CU. YDS	1	1
TOTAL WASTE CHARACTERISTICS SCORE:			19
5. TARGETS			
SURFACE WATER USE		2	6
DISTANCE TO SENSITIVE ENVIRONMENTS		0	0
COASTAL WETLANDS	NONE		
FRESH-WATER WETLANDS	NONE		
CRITICAL HABITAT	NONE		
DISTANCE TO STATIC WATER	> 3 MILES		
DISTANCE TO WATER SUPPLY INTAKE	> 3 MILES		
AND MATRIX VALUE		0	0
TOTAL POPULATION SERVED	0		
NUMBER OF HOUSES	0		
NUMBER OF PERSONS	0		
NUMBER OF CONNECTIONS	0		
NUMBER OF IRRIGATED ACRES	0		
TOTAL TARGETS SCORE:			6
SURFACE WATER ROUTE SCORE (S _{SW}) = 5.31			

HRS AIR ROUTE SCORE

<u>CATEGORY/FACTOR</u>	<u>RAW DATA</u>	<u>ASN. VALUE</u>	<u>SCORE</u>
1. OBSERVED RELEASE	NO	0	0
2. WASTE CHARACTERISTICS			
REACTIVITY:			
INCOMPATIBILITY		MATRIX VALUE	
TOXICITY			
WASTE QUANTITY	CUBIC YARDS		
	DRUMS		
	GALLONS		
	TONS		
	TOTAL		
TOTAL WASTE CHARACTERISTICS SCORE:			N/A
3. TARGETS			
POPULATION WITHIN 4-MILE RADIUS			
0 to 0.25 mile			
0 to 0.50 mile			
0 to 1.0 mile			
0 to 4.0 miles			
DISTANCE TO SENSITIVE ENVIRONMENTS			
COASTAL WETLANDS			
FRESH-WATER WETLANDS			
CRITICAL HABITAT			
DISTANCE TO LAND USES			
COMMERCIAL/INDUSTRIAL			
PARK/FOREST/RESIDENTIAL			
AGRICULTURAL LAND			
PRIME FARMLAND			
HISTORIC SITE WITHIN VIEW?			
TOTAL TARGETS SCORE:			N/A

AIR ROUTE SCORE (Sa) = 0.00

HAZARD RANKING SYSTEM SCORING CALCULATIONS
FOR
SITE: FORT OGLETHORPE DRUM SITE
AS OF 04/03/90

PAGE 5

GROUND WATER ROUTE SCORE

ROUTE CHARACTERISTICS		10	
CONTAINMENT	X	3	
WASTE CHARACTERISTICS	X	19	
TARGETS	X	3	
<hr/>			
		= 1710 / 57,330	X 100 = 2.98 = S_{gw}

SURFACE WATER ROUTE SCORE

ROUTE CHARACTERISTICS		10	
CONTAINMENT	X	3	
WASTE CHARACTERISTICS	X	19	
TARGETS	X	6	
<hr/>			
		= 3420 / 64,350	X 100 = 5.31 = S_{sw}

AIR ROUTE SCORE

OBSERVED RELEASE	0 / 35,100	X 100 = 0.00 = S_{air}
------------------	------------	--------------------------

SUMMARY OF MIGRATION SCORE CALCULATIONS

	<u>S</u>	<u>S²</u>
GROUND WATER ROUTE SCORE (S_{gw})	2.98	8.88
SURFACE WATER ROUTE SCORE (S_{sw})	5.31	28.20
AIR ROUTE SCORE (S_{air})	0.00	0.00
$S^2_{gw} + S^2_{sw} + S^2_{air}$		37.08
$J (S^2_{gw} + S^2_{sw} + S^2_{air})$		6.09
$S_M = J (S^2_{gw} + S^2_{sw} + S^2_{air}) / 1.73$		3.52



POTENTIAL HAZARDOUS WASTE
PRELIMINARY ASSESSMENT
PART 1 SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE: GA 02 SITE NUMBER: D981929268

II. SITE NAME AND LOCATION

03 SITE NAME (Legal, common, or descriptive name of site)

Fort Oglethorpe Drum Site

02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER

Battlefield Parkway (Hwy. 2)

03 CITY: Fort Oglethorpe

04 STATE: GA

05 ZIP CODE: 30742

06 COUNTY: Catoosa

07 CENSUS TRACT CODE

08 FIPS COUNTY CODE

09 COORDINATES: LATITUDE: 34°56'35.0" LONGITUDE: 85°13'36.0"

10 WALKING DISTANCE TO SITE (starting from nearest public road)

From I-75N go west on Battlefield Parkway (Hwy. 2) about 4 miles. Battlefield Elementary School is on the left. Site is located behind the school.

III. RESPONSIBLE PARTIES

01 OWNER (if known): Unknown

02 STREET (Business, mailing, residential)

03 CITY

04 STATE

05 ZIP CODE

06 TELEPHONE NUMBER

07 OPERATOR (if known and different from owner)

08 STREET (Business, mailing, residential)

09 CITY

10 STATE

11 ZIP CODE

12 TELEPHONE NUMBER

13 TYPE OF OWNERSHIP (Check one)

☐ A. PRIVATE

☐ B. FEDERAL

☐ C. STATE

☐ D. COUNTY

☐ E. MUNICIPAL

☐ F. OTHER

(Agency name)

☐ G. UNKNOWN

(Specify)

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: 06/22/82

☐ B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED:

☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON-SITE INSPECTION

BY (Check all that apply)

☐ YES

☐ A. EPA

☒ B. EPA CONTRACTOR

☐ C. STATE

☐ D. OTHER CONTRACTOR

☒ NO DATE: 2/7/90

☐ E. LOCAL HEALTH OFFICIAL

☐ F. OTHER

CONTRACTOR NAME(S): NUS Corporation

(Specify)

02 SITE STATUS (Check one)

☐ A. ACTIVE

☒ B. INACTIVE

☐ C. UNKNOWN

03 YEARS OF OPERATION:

1985

1985

BEGINNING YEAR

ENDING YEAR

☐ D. UNKNOWN 1985

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

33 Drums illegally disposed at site in 1985. Thirty contained nonhazardous latex material, two contained a chromium-based dye, and one contained a diethyl phthalate-based glue.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The potential hazard is slight since the material has been removed.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)

☐ A. HIGH (Inspection required promptly)

☐ B. MEDIUM (Inspection required promptly)

☐ C. LOW (Inspect on time available basis)

☒ D. NONE (No further action needed, complete disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT: Mario Villamarzo

02 OF (Agency, Organization): EPA

03 TELEPHONE NUMBER: (404) 347-5065

04 PERSON RESPONSIBLE FOR ASSESSMENT: Bob Donaghue

05 AGENCY: NUS 06 ORGANIZATION: FIT 4 07 TELEPHONE NO: 404-938-7710 08 DATE: 03/15/90



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE GA	02 SITE NUMBER D981929268
----------------	------------------------------

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Fort Oglethorpe Drum Site		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Battlefield Parkway (Hwy. 2)			
03 CITY Fort Oglethorpe	04 STATE GA	05 ZIP CODE 30742	06 COUNTY Catoosa	07 COUNTY CODE	08 CONG. DIST.
09 COORDINATES	LATITUDE 34°56'35.0"	LONGITUDE 85°13'36.0"			

10 DIRECTIONS TO SITE (Starting from nearest public road)

From I-75N go west on Battlefield Parkway (Hwy. 2) about 4 miles. Battlefield Elementary School is on the left. Site is located behind the school.

III. RESPONSIBLE PARTIES

01 OWNER (If known) Unknown		02 STREET (Business, mailing, residential)			
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER		
07 OPERATOR (If known and different from owner)		08 STREET (Business, mailing, residential)			
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER		
13 TYPE OF OWNERSHIP (Check one) <input type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER (Specify) _____ <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED 06/22/82 <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (CERCLA 103(c)) DATE RECEIVED _____ <input type="checkbox"/> C. NONE					

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input type="checkbox"/> YES DATE: 2/7/90 <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER _____ CONTRACTOR NAME(S): NUS Corporation (Specify)			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION 1985 1985 BEGINNING YEAR ENDING YEAR <input type="checkbox"/> UNKNOWN 1985			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED 33 Drums illegally disposed at site in 1985. Thirty contained nonhazardous latex material, two contained a chromium-based dye, and one contained a diethyl phthalate-based glue.					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION The potential hazard is slight since the material has been removed.					

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) <input type="checkbox"/> A. HIGH (Inspection required promptly) <input type="checkbox"/> B. MEDIUM (Inspection required promptly) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete disposition form)			
--	--	--	--

VI. INFORMATION AVAILABLE FROM

01 CONTACT: Mario Villamarzo	02 OF (Agency/Organization): EPA	03 TELEPHONE NUMBER: (404) 347-5065
04 PERSON RESPONSIBLE FOR ASSESSMENT: Bob Donaghue	05 AGENCY: NUS	06 ORGANIZATION: FIT 4
07 TELEPHONE NO: 404-938-7710		08 DATE: 03-15-90

REFERENCES

1. A. Shane Hitchcock, EPA On-Scene Coordinator, Emergency Response and Control Section, Action Memorandum, February 7, 1985. Subject: Immediate Removal Authorization for Fort Oglethorpe Drum Site, Fort Oglethorpe, Georgia.
2. U.S. Geological Survey, 7.5 minute series Topographic Maps: East Ridge, Georgia-Tennessee (1982), Fort Oglethorpe Georgia-Tennessee (1982), scale 1:24,000 .
3. A. Shane Hitchcock, EPA On-Scene Coordinator, January 25, 1985. Logbook for emergency cleanup at the Fort Oglethorpe Drum Site.
4. A. Shane Hitchcock, EPA On-Scene Coordinator, February 22, 1985. Memorandum to Tim Fields, EPAHQ and George Moein, EPA Region 4. Subject: Disposal of drums.
5. Ram Arora, Hydrogeologic Evaluation for Underground Injection Control in North Georgia, Hydrologic Atlas 12 (Georgia Department of Natural Resources, Atlanta 1984).
6. R. Allen Freeze and John A. Cherry, Groundwater (Englewood Cliffs, New Jersey: Prentice Hall, 1979).
7. U.S. Department of Commerce, Climatic Atlas of the United States (Washington, D.C.: GPO, June 1968) Reprint: 1983, National Oceanic and Atmospheric Administration.
8. U.S. Department of Commerce, Rainfall Frequency Atlas of the United States, Technical Paper No. 40 (Washington, D.C.: GPO, 1961), p. 93.
9. Rebecca Swanson, Catoosa County Water System, telephone conversation with Greg Thomas, NUS Corporation, November 21, 1989. Subject: Distribution and source water for residents in Catoosa County, Georgia.
10. Sandra Smith, Tennessee-American Water Company, telephone conversation with Greg Thomas, NUS Corporation, November 21, 1989. Subject: Distribution and source water for residents in Chattanooga, Tennessee and north Walker and Catoosa counties, Georgia.

11. A.H. Wellborn, Walker County Water Department, telephone conversation with Greg Thomas, NUS Corporation, November 21, 1989. Subject: Distribution and source of water for residents in Walker County, Georgia.
12. Albert Williams, Fort Oglethorpe Utilities, telephone conversation with Greg Thomas, NUS Corporation, November 21, 1989. Subject: Distribution and source of water for residents in Fort Oglethorpe, Georgia.
13. NUS Corporation Field Logbook No. F4-1863 for Battlefield Parkway Ammo Dump, TDD No. F4-8911-22. Documentation of site reconnaissance, November 28, 1989.
14. Georgia Department of Natural Resources, Water Availability and Use-Tennessee River Basin (December 1986).
15. U.S. Fish and Wildlife Service, Endangered and Threatened Species of the Southeastern United States (Atlanta, Georgia, 1988).
16. NUS Corporation Field Logbook F4-1992 for Fort Oglethorpe Drum Site, TDD No. F4-8911-86. Documentation of site reconnaissance, February 7, 1990.

ACTION MEMORANDUM

DATE: FEB 07 1985

SUBJECT: Immediate Removal Authorization for the Ft. Oglethorpe Drum Site, Ft. Oglethorpe, Georgia

FROM: On-Scene Coordinator
Emergency Response and Control Section

TO: Files

PURPOSE

- A. This memorandum is for authorization to proceed with an emergency removal action for S 10,000 at the Ft. Oglethorpe Drum Site in Ft. Oglethorpe, Georgia. A significant threat to public health and the environment existed at this site and would have worsened if response had been delayed.

BACKGROUND

A. Site Setting/Description:

1. The Ft. Oglethorpe Drum Site is located behind Battlefield Elementary School off Battlefield Parkway in Ft. Oglethorpe, Georgia.
2. At the Ft. Oglethorpe Drum Site 33 drums of unknown wastes were abandoned behind Battlefield Elementary School. Some of the drums had spilled their contents on the ground.
3. No security exists to prevent nearby school children from coming into direct contact with the wastes. No natural containment prevents migration of spilled material.
4. A creek is located approximately 200 feet from the drums as is a recreational lake.

B. Quantity and Types of Substances Present:

Initial response actions were initiated without knowledge of the types of waste present. The wastes that had spilled were migrating along a drainage ditch toward a nearby creek which fed into the Catoosa River, a local water supply. A total of 33 drums of wastes were present. It is now known that several drums contained chromium and diethyl phthalate.

C. The site is not on the NPL.

THREAT

- A. Although the drums were of unknown origin and content, the spillage threatened a local drainage basin that serves as a water supply and the potential for exposure to nearby school children existed.
- B. All leaking drums were secured and samples were collected for analyses by GA-EPD to determine if the wastes were hazardous. No further site actions were conducted prior to that determination.
- C. Receipt of analyses revealed hazardous substances were present in only a few drums. These drums were subsequently overpacked and are awaiting disposal at a hazardous waste landfill pending approval. The remainder of the drums will be disposed of by the county in the local landfill in coordination with GA-EPD.

ENFORCEMENT

See Attachment # 1

PROPOSED PROJECT AND COST

- A. Objectives of the project were first to secure wastes and determine if hazardous substances were present. The subsequent steps are to make necessary arrangements for the disposal of hazardous and non-hazardous wastes present at the site.

B. COSTS

ERCS Cost thru Completion:	\$ 9,000
Intramural Costs:	\$ 1,000
Total Costs:	\$ 10,000

C. Project Schedule:

Initial response took place on January 25, 1985. Drums were secured and segregated on January 31, 1985. We are currently waiting for disposal approval to transport wastes to a hazardous waste facility.

REGIONAL AUTHORIZATION

Because conditions at the Ft. Oglethorpe Drum Site meet the NCP section 300.65 criteria for an immediate removal, I, as On-Scene Coordinator authorize expenditures not to exceed \$ 10,000 through procurement authority delegated to me under Authority Number 84-7-0A-118.

A. Shane Hitchcock
On-Scene Coordinator
Emergency Response and Control Section

Date

cc: Charles R. Jeter
Thomas W. Devine

PSM 4/7/85

Attachment # 1

ENFORCEMENT

The persons responsible for dumping the drums at the Ft. Oglethorpe Drum Site are unknown. The origin of the drums is also unknown since the drums had no markings.

Fred Morris, Ft. Oglethorpe Board of Alderman, was asked if the city would pay for the removal. Mr. Morris explained that the city did not have funds available to do the cleanup.

OVERSIZED

DOCUMENT

Ft. Oglethorpe, GA

N Office 1245 1/25/85

On Scene 1415

Billy Powell - Apt. N/A

Tenell Lenaton Ft. Oglethorpe Police

Burt Langley EPD

James F. Davis Supt. STP

Drums dumped max. two weeks
ago. Appear to contain dyes &
solvents & latex wastes.

1535 Hitchcock called Hazle -

Gary Clemens. 1 Response

Mgr. 3 trucks coming to
secure sight & collect samples

Equipment Ordered:

1- Response Van 1- track light

1- Drum Cart

Sample Containers

Vermiculite

Hand Tools

Will meet at Dattlefield Elementary
School at 6:00 pm.

1600, Let Press on Site

Kathy Wash - WRIC Channel 3

268-5037

Chattanooga

James F. Davis - Supt. STP

Discovered 1/25/85, 1030

Griff City did not have funds to pay for
Clean Up

1740 Jim Schuber - WSB TV2
On Scene.
Conducted Interviews w/ Hitchcock &
Langley (EPA).

1930 Hagler On Scene

2020 Fred Morris - City Council
On Scene

2110 2 Techs (Level B) ~~on~~
begin drum staging.
Personnel On Scene

EPA - Hitchcock

HALTECH - Dan Clingan - RM
Sack Scott - Tech

Sam Cook - Tech

Doug Langley - Tech

NOCHARGE Art Tippet - Ind. Hyg.

Equipment:

Response Van

Pick Up w/ Trailer

4-Wheel Drive.

PPE downgraded to Level C
due to low temp (17°F) and
~~low~~ ~~start~~ physical state of
waste (thick sludge). Appears to be latex.
2 drums contain liquids & will
be sampled first. Level B on
standby at Hot Line

Drum Count - 34

27 drums look like latex

2345 - Sampling Complete

2355 Mike Webber Channel 12
On Scene

0029 Site Secured

Drums Covered w/ Visqueen

0100 All Personnel Leave Site

Total Drums	34
Empty	5
Resin	1
Red Powder	1
Red Liquid	1
Latex	26

5 samples

1 - Resin

1 - Powder

1 - Liquid

1 - Latex

2140 Scott & Cook on second tank.

2206 Drums Staged

2235 Sampling. Rm.

① Fred Morris 841-0244 SIP
866-4327 866-2544 City Hall

1/28/85 Called Bert Langley - EPD
NO DATA YET

296-4979 HOME
-7802

Material won't flash

1/30/85 Bert Langley

5 samples

2- Latex No flash water soluble oil Non Haz.

2- Dye Liquid 1100ppm / Solid 1.2% Cr

1- Glue Diethyl ~~Phthalate~~ 1%
Phthalate

1/30/85 1150 Hitchcock called Haztech
Delayed results of analyses to Dan
Clingham. Dan will initiate disposal
and transportation arrangements.
Haztech is to mobilize to site
the morning of 1/31 to overpack
drums.

1/31 Hitchcock + Haztech on scene to overpack
0930 3 hazwst drums.

0940 Called Fred Morris to inform him of removal action

1145 Fred Morris on scene

1200 Fred Morris leaves scene

1215 Overpack & waste completed - All Personnel leave

2-1-85 Ft. Oglethorpe Site (cont.)

0900 Hitchcock returned call to Fred Morris. Bd of Aldermen. Mr Morris said that the county landfill operators needed confirmation that drums could be disposed of at the landfill.

0935 Hitchcock called James Moser. Moser wants written confirmation for disposal of non-haz waste. Hitchcock said EPA will be ~~in~~ touch w/ him concerning disposal. ~~For~~ Hitchcock explained waste was non-hazardous based on state data, however, state will need to give approval for disposal.

2-5-85

Two Hazled & one St. Joseph employees meet at site and load 2 drums. Drums will be taken to St. Joseph's until disposal approval.

ATTN: TIM FIELDS, ~~EPA~~-HQ
George Moein, Region IV

Subject: Ft Oglethorpe Drum Site, Ft Oglethorpe, GA
POLREP 2 and final

Situation

February ~~8~~²², 1985 - ~~Hazardous Waste~~ Two drums containing hazardous waste were picked up and transported to Chemical Waste Management for disposal. 30 drums of nonhazardous latex waste were disposed of at the Catoosa County Landfill by county personnel.

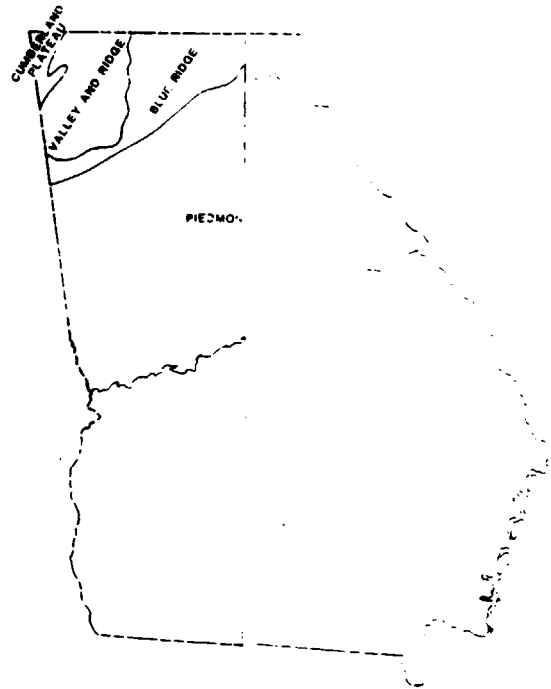
Estimated Cost to date: \$ 7,000

A. Shane Hitchcock

HYDROGEOLOGIC EVALUATION FOR UNDERGROUND INJECTION CONTROL IN NORTH GEORGIA

Reference No. 5

Edited by
Ram Arora, Ph.D.
Assistant State Geologist



DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION
GEORGIA GEOLOGIC SURVEY

Hydrologic Atlas 12

HYDROGEOLOGIC EVALUATION FOR UNDERGROUND INJECTION CONTROL IN NORTH GEORGIA

INTRODUCTION

J. A. KELLAM AND R. ANDRA

The area investigated includes the Piedmont, Blue Ridge, Valley and Ridge, and Cumberland Plateau Provinces of Georgia, covering about 23,000 square miles, 40 percent of the State. The Blue Ridge and Blue Ridge Provinces consist of several northeast to southwest trending belts of crystalline rock, ranging in age from Precambrian to Tertiary. The Valley and Ridge consists of folded and faulted sedimentary rocks of Cambrian to early Paleozoic age. The Cumberland Plateau Province is a sequence of relatively unmetamorphosed Paleozoic sedimentary rocks.

The hydrogeologic analyses were based on the study of numerous existing data, old and new information, and water well data, with extensive use made of previous geologic and hydrologic studies. Station maps and flow area maps have been constructed for north Georgia in this hydrogeologic study. Well yields and specific capacity maps were constructed for the entire north Georgia area. In the primary structural provinces of the Blue Ridge and Piedmont Provinces, maps were constructed to delineate the size and location of basement, metamorphic, igneous, and sedimentary units. Additionally, a map was constructed to define areas where seismic activity such as faulting (e.g., brittle deformation) has resulted in discontinuities. Similarly, a basement map was prepared, on which features may be indicative of enhanced weathering along features. Cumberland Plateau and Valley and Ridge contain known groups of faults (e.g., Fort Payne and Fort Payne-Chert) and are considered as to the following aspects: 1) jointing, 2) relation of aquifers and confining units, and 3) thickness of aquifers.

GEOLOGY

Blue Ridge and Piedmont Provinces

The Blue Ridge and Piedmont Provinces comprise approximately 20,000 square miles, an area characterized as a complex system of igneous and metamorphic rocks of Precambrian to Tertiary age. Structurally, these provinces are divided into a series of northeast to southwest trending belts separated by major faults and/or shear zones. Lithological features of deeply weathered and commonly folded, faulted, and fractured igneous, metamorphic, and sedimentary rocks. The principal episodes of metamorphism occurred during Precambrian and middle Paleozoic times.

Valley and Ridge and Cumberland Plateau Provinces

Comprising a total area of about 3000 square miles, these two provinces are located in northeast Georgia. They are separated from the rest of Georgia by the Cartersville and Great Smoky Fault systems to the east and south. The regional structural trend here is northeast to southwest. The Valley and Ridge is a province of variably folded and faulted sedimentary rocks, whereas the structure of the Cumberland Plateau Province is more subtle with rare direct folding and more gentle folded strata.

The lithologic content of sedimentary formations ranging from Cambrian to Early Pennsylvanian in age. Compositional and thickness variations in the strata reflect changing environments of deposition in the gravity marine environment during this span of time, as well as nearby tectonics which periodically occurred.

HYDROGEOLOGY

The primary permeability and porosity are well in unfractured sedimentary and igneous rocks. The quantity of water available in these rocks depends upon the development of secondary permeability in the form of joints, fractures, and their interconnection. The size of aquifers and

degree of interconnection of joints and fractures depend upon the nature of the rock, depth below land surface, and geologic and tectonic environment. According to Crocker and others (1983), joints and other openings in soft rocks such as shales tend to be tight and poorly connected. The well yield in these rocks is small. On the other hand, openings in more brittle rocks such as quartzite and gneiss tend to be larger and better connected. Wells in these rocks normally supply greater yields. Cyclic rock rocks generally contain little or no porosity and are not considered as aquifers and transmit large quantities of water.

This study contains three plates (2-4) displaying the locations of water wells in north Georgia which are characterized by yields less than or equal to 35 gal/min, between 35 gal/min and 74 gal/min, and greater than or equal to 75 gal/min. No significant correlation of yield with lithology or depth is apparent. Approximately two-thirds of the plotted wells have specific capacity values within the range of 0.1 to 1.0 gal/min/ft (plate 3).

Crocker and others (1983, p. 10) associate high-yielding wells with certain structural and stratigraphic features which include: 1) contact zones between rock units of contrasting character; 2) contact zones within multilayered rock units; 3) fault zones; 4) areas of folded strata; 5) zones of fracture concentration; 6) small-scale structures including joints, bedding planes, and fold axes, that localize drainage development; 7) folds that produce concentrated jointing; and 8) shear zones.

Other factors, such as topographic setting, drainage style, rock type, depth of weathering, thickness of soil cover, and the permeability and orientation of foliation can increase or decrease the availability of ground water.

MAP AND CROSS SECTION PLATES

A total of eleven maps and five cross sections were produced for this study. Seven maps covering the entire study area were constructed for the following parameters: 1) well yields (three maps) indicating pumping rates in gallons per minute which, over an indefinite time period did not lower the water level below the pump intake; 2) specific capacity, showing productivity of the wells, defined as the ratio of pumping rate to measured drawdown (gallons/minute/foot drawdown); 3) hydrographs of selected wells illustrating annual changes in water levels; 4) brittle structures illustrating current interpretations regarding the locations of major faults and structural zones in the study area; and 5) lineaments representing linear features seen on National Aeronautics and Space Administration ERTS imagery checked by comparison with U.S. Geological Survey topographic maps. For the Piedmont and Blue Ridge Provinces, a map of granite plutons and granite bodies was constructed to delineate the size and location of the bodies. Three maps and five cross sections were constructed for the Valley and Ridge and Cumberland Plateau Provinces. These include: 1) structural contours of the tops of the Knox Group and the Fort Payne Chert and Armaghite Chert; 2) total dissolved solids concentrations of selected wells in north Georgia, and their relationship to several hydrogeologic units in the area; 4) cross sections (two) of the Paleozoic rocks of north Georgia, using well data and measured sections to determine the relationship of aquifers to confining units.

Data

Data for this project came primarily from published and unpublished material on file at the U.S. Geological Survey, the Georgia Geological Survey and other branches of the Environmental Protection Division of the State of Georgia. Also, persons involved in current relevant studies were contacted.

Map Scale

Map scales in this study are generally 1:1,000,000. Exceptions are the 1:500,000 scale used for the total dissolved solids map of north Georgia, and the structural contour of the Knox Group and Fort Payne Chert-Armaghite Chert intervals. Contour intervals are dependent on the number of data points available and the range of variability of the data. Location of contour lines are approximate and interpretation is based on assumed continuous trends between points.

Vertical exaggeration on the cross sections is 1:1. Vertical and horizontal scales are 1" = 5,000.

Funding

Funding for this project has been provided by the U.S. Environmental Protection Agency (E.P.A.) and the State of Georgia Department of Natural Resources, Environmental Protection Division.

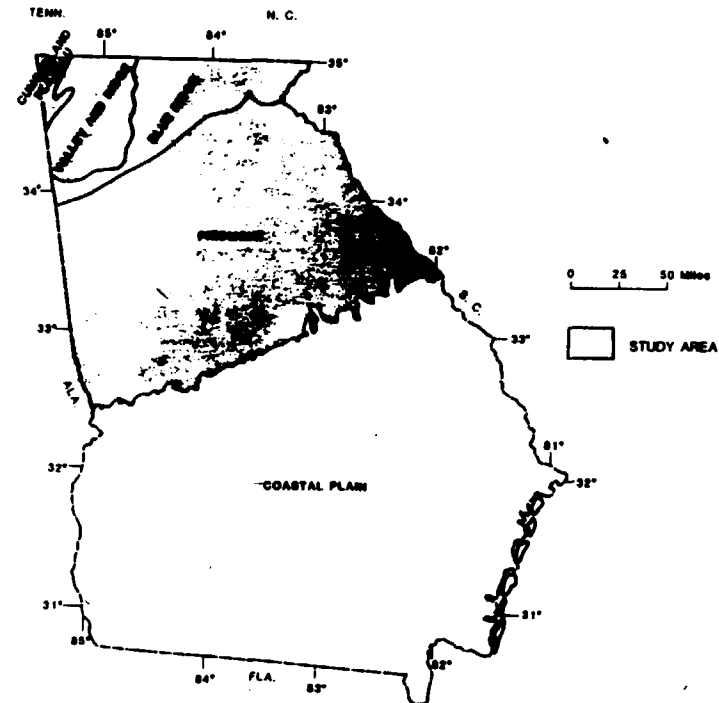
Underground Injection Control Project Coastal Plain of Georgia

The Georgia Geological Survey also has prepared a series of maps and cross sections of the Coastal Plain of Georgia, entitled "Hydrogeologic Evaluation for Underground Injection Control in the Coastal Plain of Georgia: Georgia Geological Survey Hydrologic Atlas 10." To obtain a copy, direct requests to:

Georgia Geological Survey
Room 400
19 Martin Luther King, Jr. Dr., S.W.
Atlanta, Georgia, 30334

REFERENCE

Crocker, C.W., Thurmond, C.J., and Moser, W.B., 1983. Ground water in the Greater Atlanta Region, Georgia: Georgia Geological Survey Information Circular 53, 144 p.



WATER-LEVEL TRENDS IN SELECTED WELLS IN NORTHERN GEORGIA

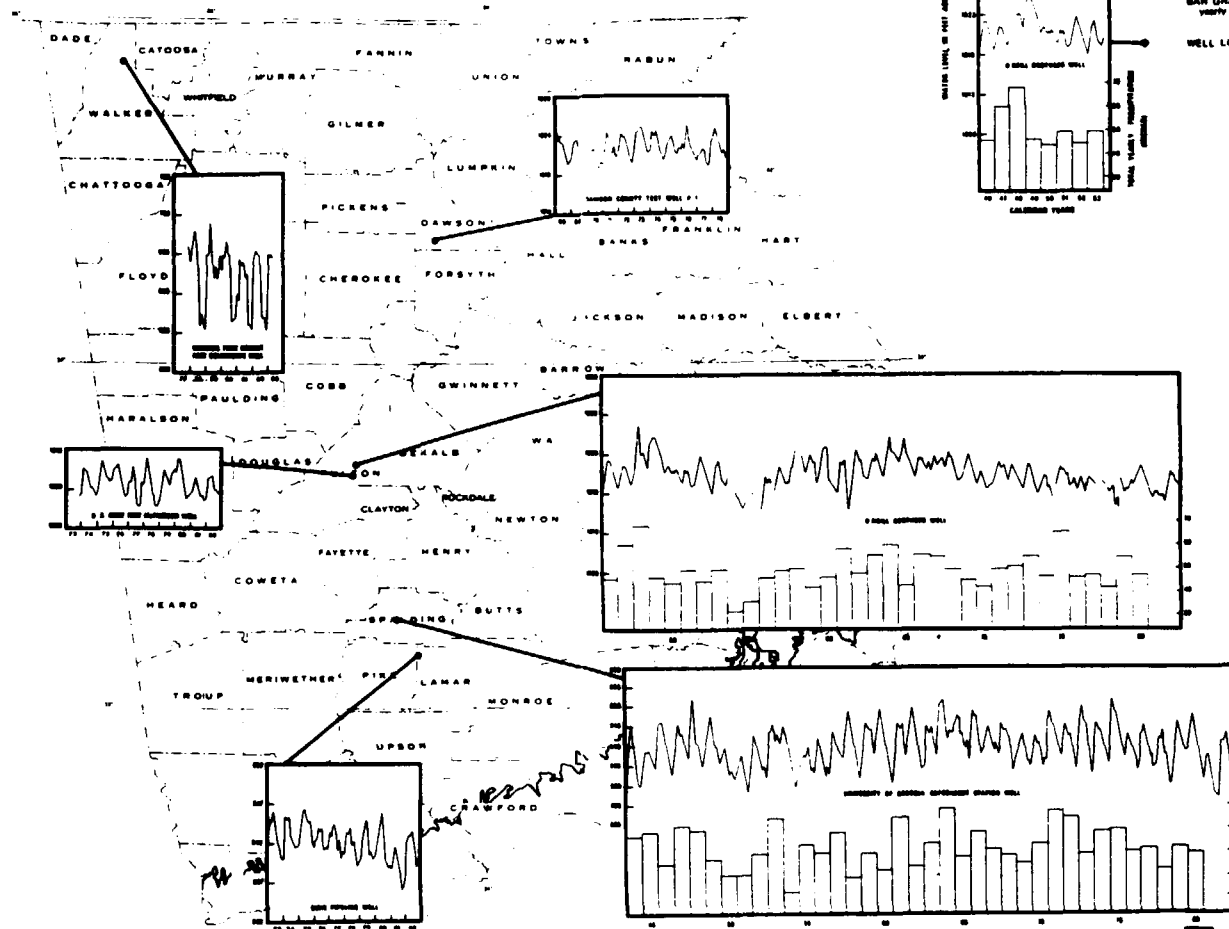
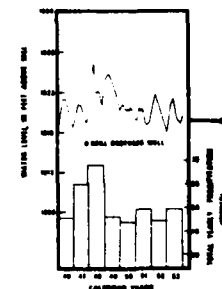
W. M. COLEMAN AND J. A. KELLAM

EXPLANATION

HYDROGRAPH: Shows water level fluctuations and trends from 1973 to 1982. Name refers to well identification.

BAR GRAPH: Shows amounts of total yearly precipitation in inches.

WELL LOCATION



0 10 20 30 40 MILES

These hydrographs present information about seasonal and long-term variations in ground water levels at selected sites in northern Georgia. Locations of six established hydrograph stations are shown with graphs of six available data. The Fort Oglethorpe well is located in the Valley and Ridge Province and the Dawson County well is located in the Blue Ridge Province. The other four hydrograph stations are within the Piedmont Province.

All of the wells except the Fort Oglethorpe well which maintains water levels in fractured limestone of the Chickasaw Group, are located in water-bearing sands. The hydrographs show the response of unconsolidated sandstone-aquifers. Flow systems to variable conditions of recharge and discharge. The seasonal pattern of diminished summer and autumn aquifer recharge is clearly reflected in the continuous hydrograph data.

Long-term precipitation data are available from rain gauge stations located near the hydrographs in Fannin and Gwinnett Counties. For the purpose of comparison, bar graphs displaying amounts of total yearly precipitation have been plotted beneath the two long period hydrographs.

SOURCES

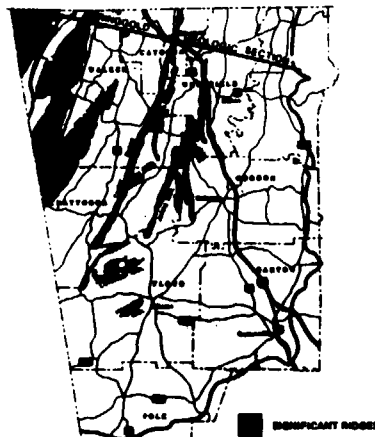
Clarke, J.S., Hester, W.G., and O'Brien, M.P., 1979. Ground-water levels and quality data for Georgia, 1979. U.S. Geol. Survey Open-File Report 79-1295, 94 p.

Matthews, L.E., Hester, W.G., and McFadden, K.W., 1982. Ground-water data for Georgia, 1981. U.S. Geol. Survey Open-File Report 82-201, 101 p.

National Oceanic and Atmospheric Administration, Environmental Data and Information Service, climatological data yearly summarized, 1965-1985.

U.S. Department of Commerce, Environmental Science Service Administration, Weather Bureau, climatological data yearly summarized, 1965-1984.

Unpublished data on file at the U.S. Geological Survey, Dacula, Ga.



The Late Cambrian and Ordovician formations in the Ringgold Geologic Section reflect deposition during orogenic basin development in north Georgia. Growth changes in thickness of the lower Cambrian section are related to Ordovician tectonics and erosion events. Folding in the Middle and Late Ordovician indicates further deposition during these events. Interfolding thickness and strike of the Silurian facies of the Ordovician Chickamauga Group occur to the west of the Chickamauga Fault. To the east, at least two basins containing clastic sediments were present (Shaw Formation and Athens Shale). These were separated by a basement fault (Macon Lineament).

--- FORMATIONAL CONTACT
--- THRUST FAULT
SEA LEVEL
SHALES (SHALE)
SANDSTONES (SANDSTONE)

STRATIGRAPHIC SECTION

MISSISSIPPIAN-PENNSYLVANIAN

10-12

INCLUDES RACCOON MOUNTAIN AND YOUNGER PENNSYLVANIAN CLASTIC SEQUENCES

13-14

INCLUDES THE PENNSYLVANIAN SHALE AND SANDER-SHORTLEIGH-TURNER Limestone SEQUENCE

15-16

INCLUDES FLOYD SHALE

17-18

INCLUDES POST PAYNE CHERT, MAURY SHALE

19-20

INCLUDES LAYBROOK SHALE

ILLINOIS

21-22

RED MOUNTAIN FORMATION

ORDOVICIAN

23-24

25-26

27-28

29-30

31-32

33-34

35-36

37-38

39-40

41-42

43-44

45-46

47-48

49-50

51-52

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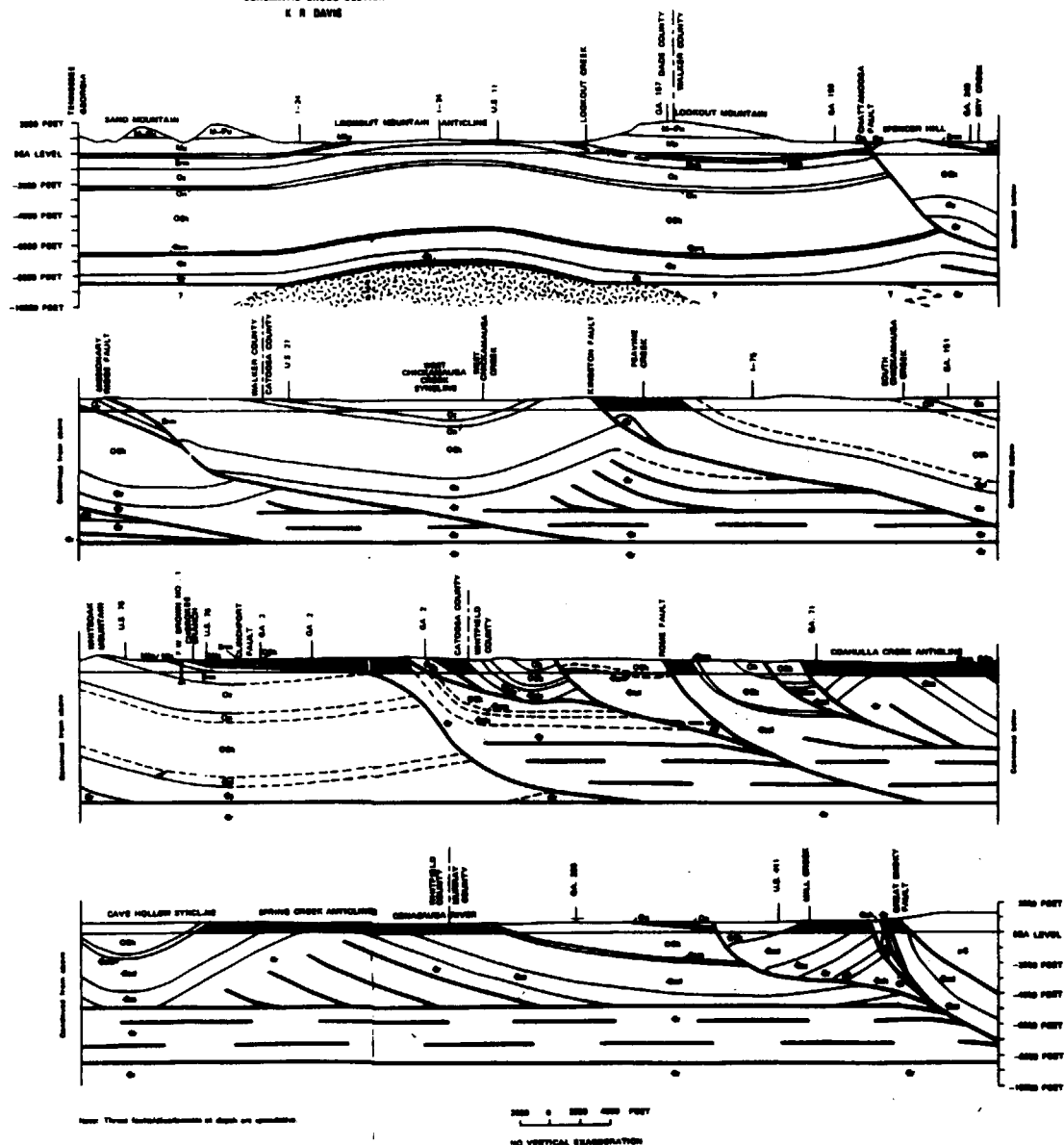
97-98

99-100

RINGGOLD GEOLOGIC SECTION

SCHEMATIC CROSS SECTION

K. R. DAVIS



Reference No. 6

R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

John A. Cherry

Department of Earth Sciences
University of Waterloo
Waterloo, Ontario

GROUNDWATER

Prentice-Hall, Inc.
Englewood Cliffs, New Jersey 07632

ee conductance
l. so petroleum
3) is substituted

(2.29)

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in terms of Eq.

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gical materials.
(9) review. The
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be very useful.
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common units
be converted to
ion from ft² to

Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

Rocks	Unconsolidated deposits					
		k (darcy)	k (cm ²)	K (cm/s)	K (m/s)	K (gal/day/ft ²)
		10 ⁵	10 ⁻³	10 ²	1	
		10 ⁴	10 ⁻⁴	10	10 ⁻¹	10 ⁶
		10 ³	10 ⁻⁵	1	10 ⁻²	10 ⁵
		10 ²	10 ⁻⁶	10 ⁻¹	10 ⁻³	10 ⁴
		10	10 ⁻⁷	10 ⁻²	10 ⁻⁴	10 ³
		1	10 ⁻⁸	10 ⁻³	10 ⁻⁵	10 ²
		10 ⁻¹	10 ⁻⁹	10 ⁻⁴	10 ⁻⁶	10
		10 ⁻²	10 ⁻¹⁰	10 ⁻⁵	10 ⁻⁷	1
		10 ⁻³	10 ⁻¹¹	10 ⁻⁶	10 ⁻⁸	10 ⁻¹
		10 ⁻⁴	10 ⁻¹²	10 ⁻⁷	10 ⁻⁹	10 ⁻²
		10 ⁻⁵	10 ⁻¹³	10 ⁻⁸	10 ⁻¹⁰	10 ⁻³
		10 ⁻⁶	10 ⁻¹⁴	10 ⁻⁹	10 ⁻¹¹	10 ⁻⁴
		10 ⁻⁷	10 ⁻¹⁵	10 ⁻¹⁰	10 ⁻¹²	10 ⁻⁵
		10 ⁻⁸	10 ⁻¹⁶	10 ⁻¹¹	10 ⁻¹³	10 ⁻⁶
						10 ⁻⁷

Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, k^a			Hydraulic conductivity, K		
	cm ²	ft ²	darcy	m/s	ft/s	U.S. gal/day/ft ²
cm ²	1	1.08×10^{-3}	1.01×10^8	9.80×10^2	3.22×10^3	1.85×10^9
ft ²	9.29×10^2	1	9.42×10^{10}	9.11×10^3	2.99×10^4	1.71×10^{12}
darcy	9.87×10^{-9}	1.06×10^{-11}	1	9.66×10^{-6}	3.17×10^{-3}	1.82×10^1
m/s	1.02×10^{-3}	1.10×10^{-6}	1.04×10^3	1	3.28	2.12×10^6
ft/s	3.11×10^{-4}	3.35×10^{-7}	3.15×10^4	3.05×10^{-1}	1	6.46×10^5
U.S. gal/day/ft ²	5.42×10^{-16}	5.83×10^{-13}	5.49×10^{-2}	4.72×10^{-7}	1.55×10^{-6}	1

^aTo obtain k in ft², multiply k in cm² by 1.08×10^{-3} .

Freeze, R.A., and J.A. Cherry, "Groundwater,"
Prentice-Hall Inc. Englewood Cliffs, N.J.



CLIMATIC ATLAS OF THE UNITED STATES

ACE . Environmental Science Services Administration . Environmental Data Service



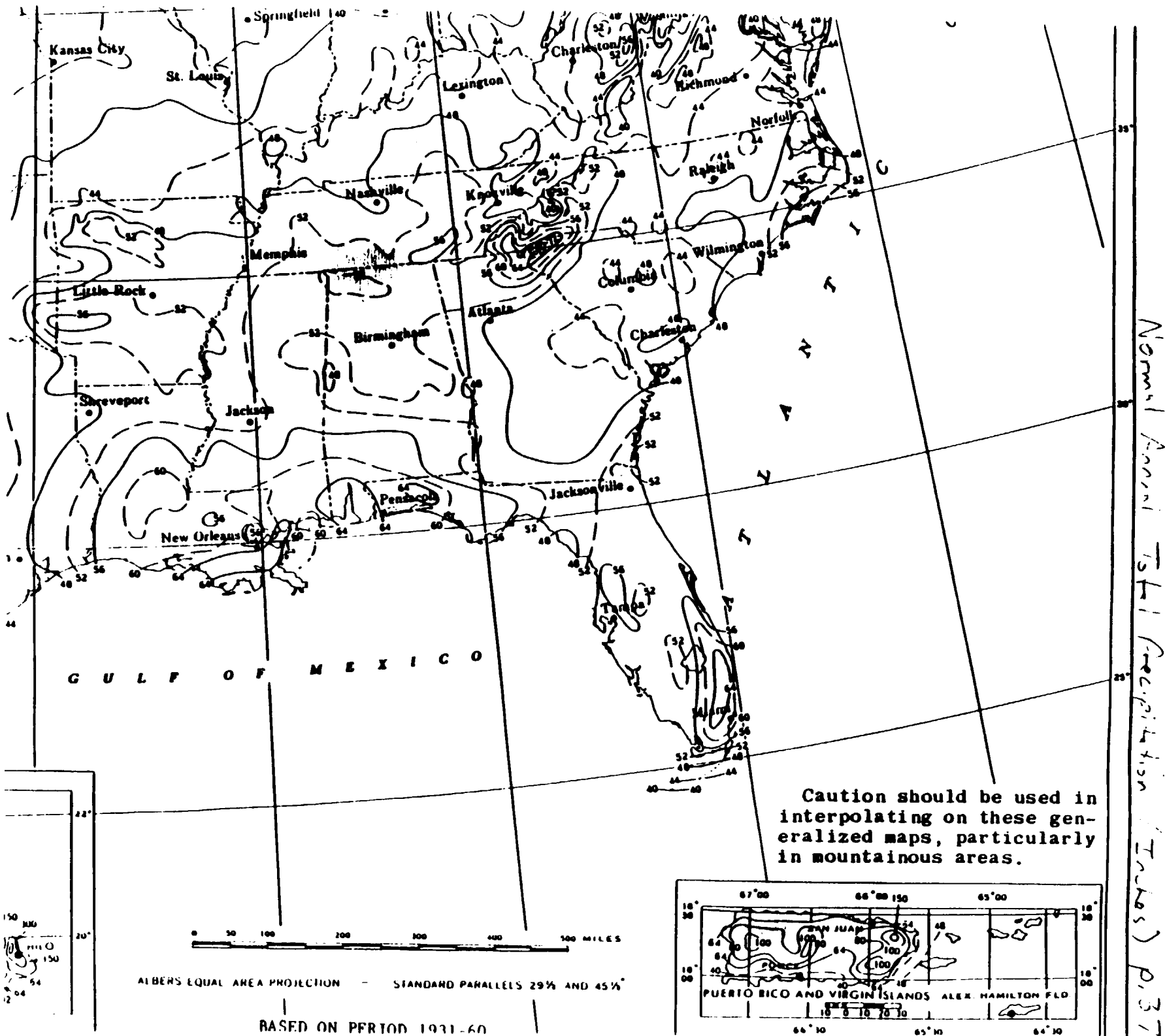
U.S. DEPARTMENT OF COMMERCE
C. R. Smith, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
Robert M. White, Administrator

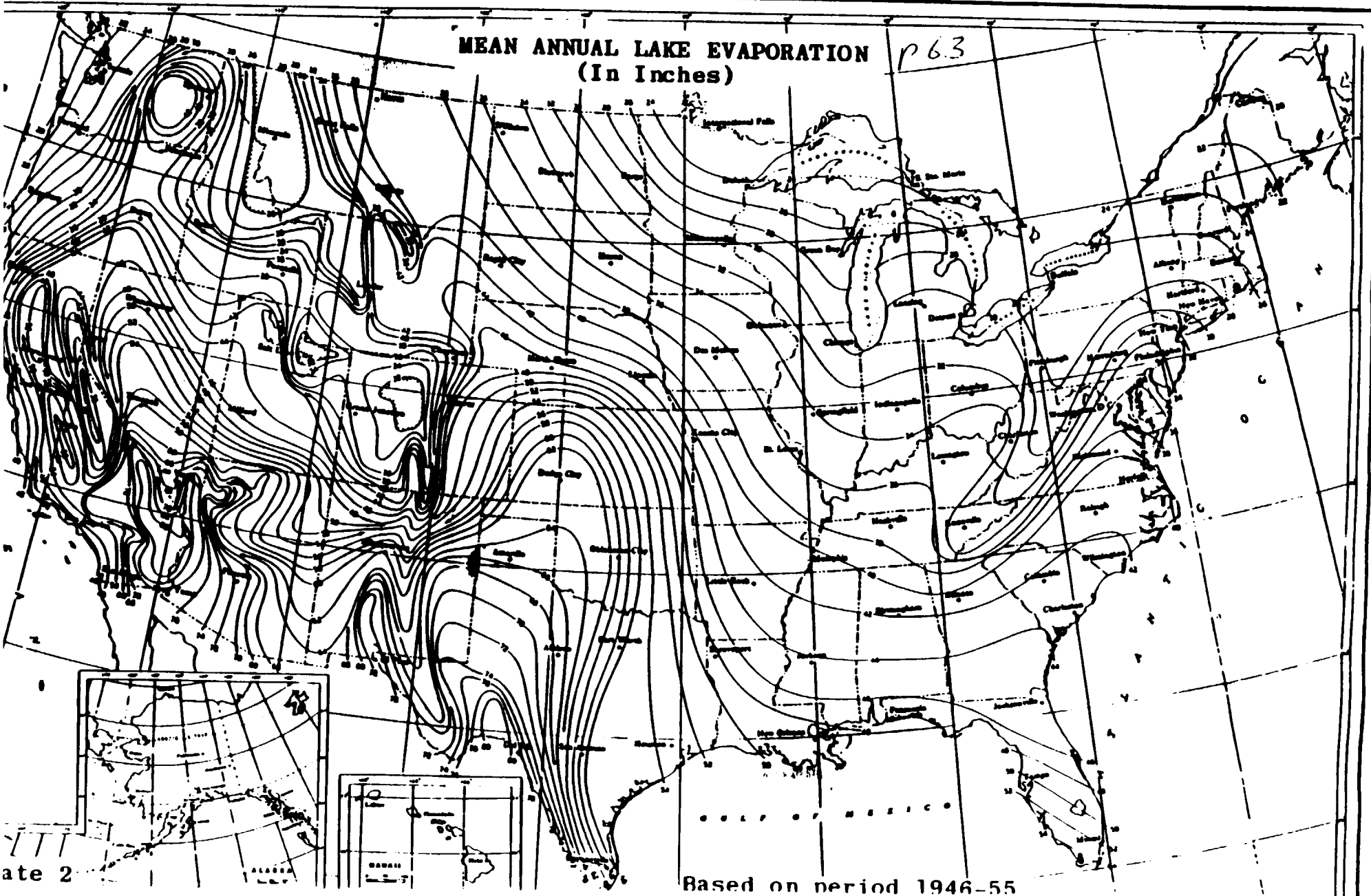
ENVIRONMENTAL DATA SERVICE
Woodrow C. Jacobs, Director

JUNE 1968

REPRINTED BY THE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
1983



KE EVAPORATION



COMMERCE

WEATHER
F. W. REYNOLDS

TECHNICAL PAPER NO. 40

Reference No. 8

RAINFALL FREQUENCY ATLAS OF THE UNITED STATES

**for Durations from 30 Minutes to 24 Hours and
Return Periods from 1 to 100 Years**

Prepared by

DAVID M. HERSHFIELD

Cooperative Studies Section, Hydrologic Services Division

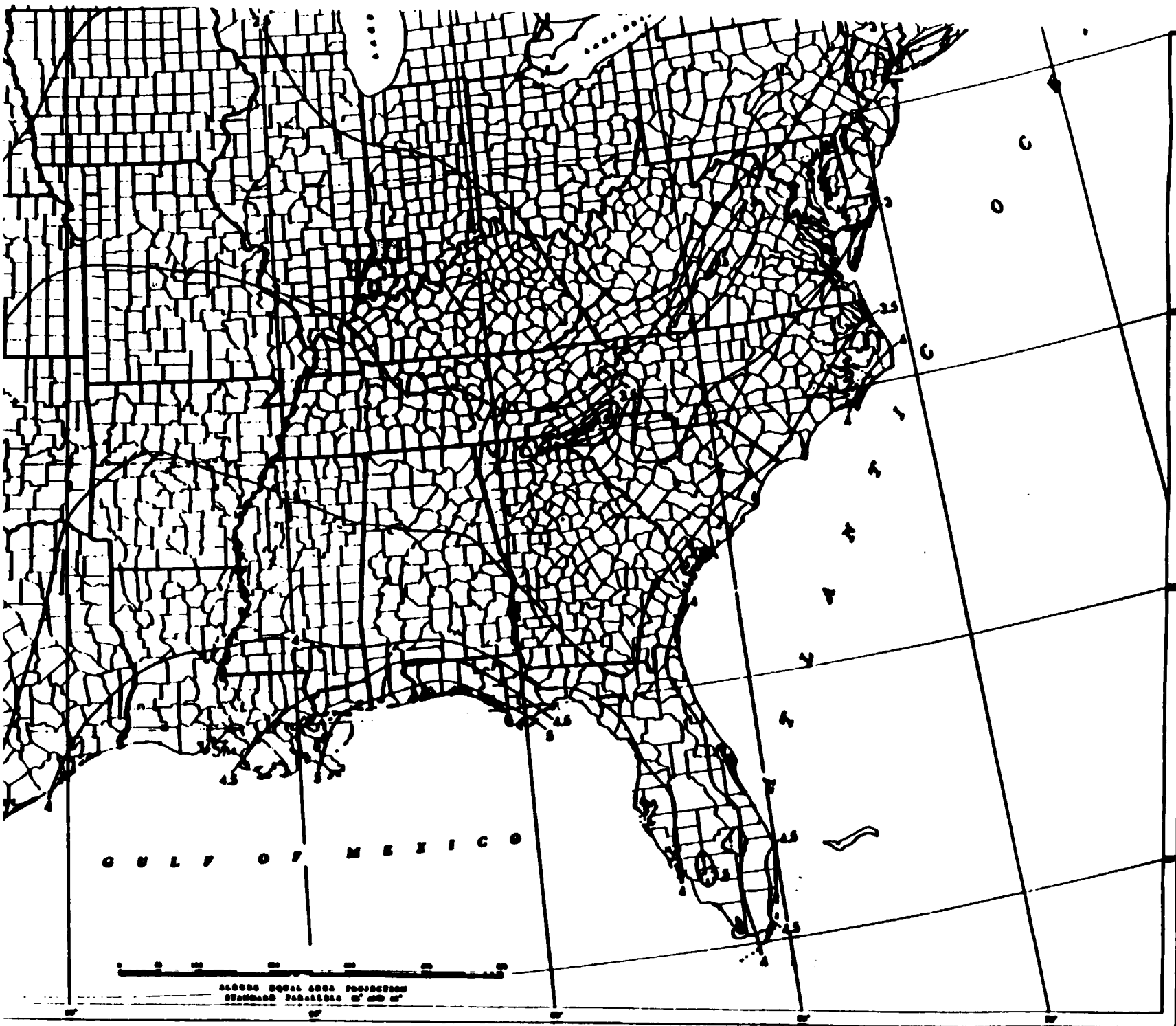
for

Engineering Division, Soil Conservation Service

U.S. Department of Agriculture



PROPERTY



Rainfall Frequency Atlas

1:100,000,000

1:100,000,000

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE**

Reference No. 9

CONTROL NO.**DATE:** 11-21-89**TIME:** 1500**DISTRIBUTION:****BETWEEN:** Rebecca Swanson**OF:** Catoosa County Water System**PHONE:** (404) 937-4121**AND:** Greg Thomas, NUS Corporation**DISCUSSION:**

Catoosa County Water System provides water to all of rural Catoosa County area around Ft. Oglethorpe. Has 8338 connections. Obtain water from Yeates Spring off of State Hwy. 151 in southern part of county. Office is located 5 miles north of Ringgold on Hwy. 41.

NUS CORPORATION AND SUBSIDIARIES		TELECON NOTE
Reference No. 10		
CONTROL NO.	DATE: 11-21-89	TIME: 1600
DISTRIBUTION:		
BETWEEN: Sandra Smith	OF: Tennessee-American Water Co.	PHONE: (615) 755-7600
AND: Greg Thomas, NUS Corporation		
DISCUSSION: Provide water to all of Chattanooga, TN Rossville and Lakeview, Georgia. Water supply is Tennessee River. Office located at 1101 Broad Street next door to library and TVA Complex.		

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE**

Reference No. 11

CONTROL NO.**DATE:** 11-21-89**TIME:** 1610**DISTRIBUTION:****BETWEEN:** A. H. Wellborn**OF:** Walker Co. Water & Sewer
Dept.**PHONE:** (404) 820-1455**AND:** Greg Thomas, NUS Corporation**DISCUSSION:**

Office in Flintstone, Georgia. provides water to all of NE Walker Co. that Tennessee-American doesn't provide for. Supplied by 3 wells in Chickamauga on the Coke Oven property. Also supplied by surface water from Crawfish Springs Lake south of Chickamauga.

NUS CORPORATION AND SUBSIDIARIES**TELECON NOTE**

Reference No. 12

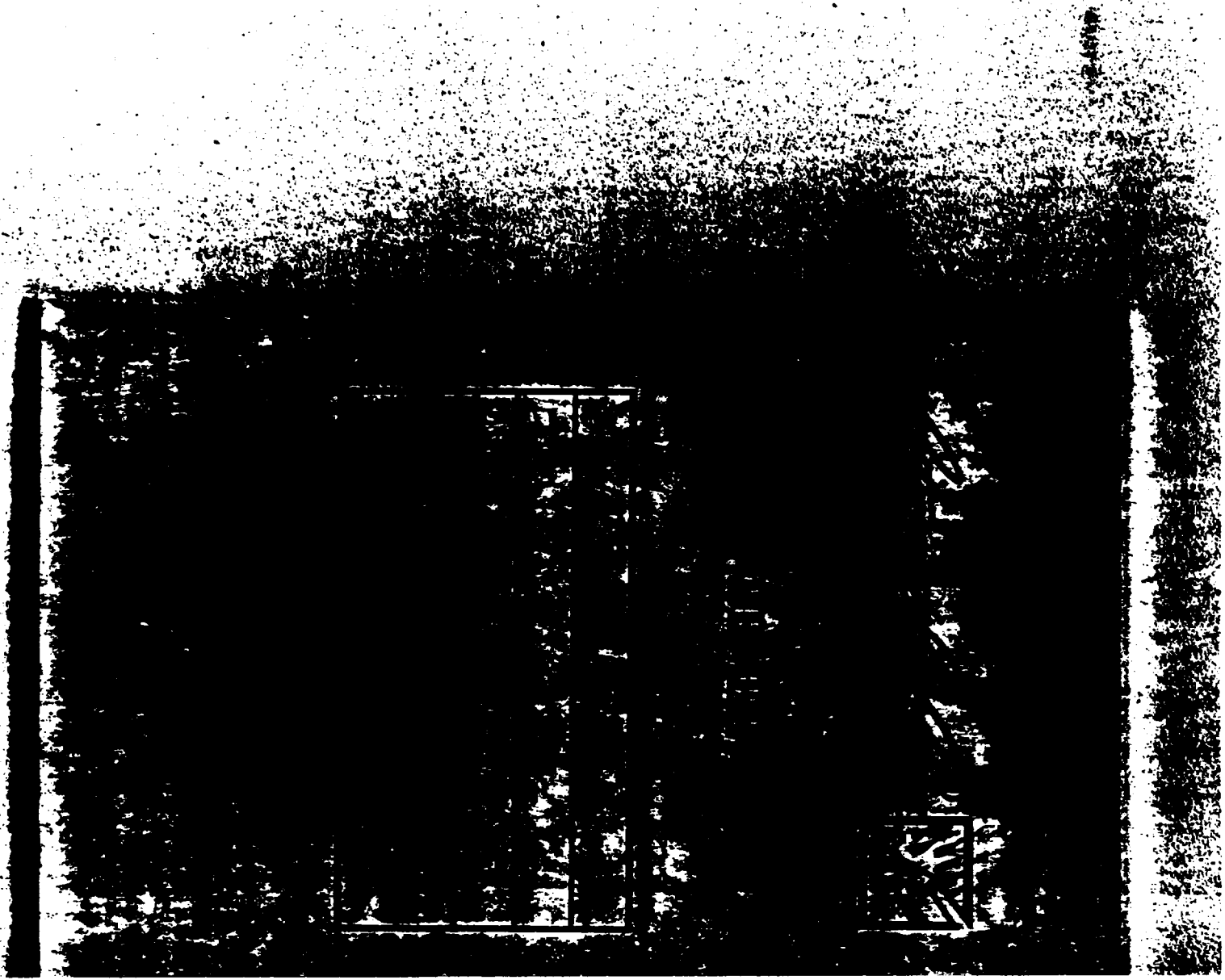
CONTROL NO.**DATE:** 11-21-89**TIME:** 1515**DISTRIBUTION:****BETWEEN:** Albert Williams**OF:** Ft. Oglethorpe Utilities**PHONE:** (404) 866-0962**AND:** Greg Thomas, NUS Corporation**DISCUSSION:**

Ft. Oglethorpe obtains water from the Catoosa County Water System. Provides water to city of Ft. Oglethorpe only. Office located at dead end of Howard Dr.

POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**

Reference No. 13



By
Greg Thomas

GT
11-28-89

4

1130 Arrived at Catbosa County,
Water Dept., located on
Hwy. 41 5 miles north of
Ringgold, GA. Obtained copies
of water line map

1240 Arrived at Tennessee-Ameri.
Water Co., on Broad St.
in Chattanooga. Obtained copi-
es of water line maps.

1430 Arrived at Walker County
Water Dept., in Flintstone,
GA. Spoke to the manager,
Mr. A. H. Wellborn. Looked
at water line maps and
drew lines on my topo map

1510 Arrived at Ft. Oglethorpe
Water Dept. Spoke to the
manager: Mr. Albert Williams.
He told me the location of
the Ft. Oglethorpe water line

GT
11-28-89

4

Mr. Williams said that no households in the Ft. Oglethorpe water district are on private wells. He said that Ft. Oglethorpe Water Dept. purchases their water from Cataposa Co. Water Dept.

There is a drainage ditch located directly behind the Oil Change Garage. The water would appear to flow to the east. Left site to go to Cataposa County Laback site.

1520 Arrived at Battlefield Parkway Ammo site. Weather is partly cloudy and warm. The site is in a commercial and residential area. The immediate area of the site is now completely paved over. Located there is a Mini-Storage facility and an Oil Change Garage. Took photos 1, 2, and 3. There is a school located 3500 feet north of the site. Closest residence^{GT} is ~~GT~~ a nursing home located about 500 feet to the north.

GT
11-28-89

GT
11-28-89

5

GT
11-28-89

Mini-Storage
buildings

drainage ditch

Medical
Clinic

Oil Change
Garage

Mini-
Storage
facility

Ace
Hardware

X photos
1 & 2

Battlefield Parkway ^{X photo 3} (Hwy. 2)

↑ N

Reference No. 14



Water Availability & Use Tennessee River Basin

**Georgia Department of Natural Resources
Environmental Protection Division**

**FINAL
DRAFT**

**WATER AVAILABILITY AND
USE REPORT**

TENNESSEE RIVER BASIN

**GEORGIA ENVIRONMENTAL PROTECTION DIVISION
DECEMBER 1986**

TABLE OF CONTENTS

	<u>Page</u>
EXECUTIVE SUMMARY	1
EVALUATION OF WATER RESOURCES	4
Overview	4
Water Use Projections	4
Instream Flow	4
Municipal, Industrial, and Agricultural Water Use	4
Water Resources Capabilities and Problems	5
Geographic Area Factors	5
Seasonal Factors	5
Hydrologic System Limits	6
Water Quality in the Tennessee River Basin	7
Water Management in the Tennessee River Basin.....	8
State and Local Planning and Management.....	8
Local Issues.....	9
Water Resources Management Criteria	9
Permitting Process	9
Criteria for Protection of Instream Values and	
Permittees	10
WATER AVAILABILITY AND USE	12
Introduction	12
Purpose	12
Background	13
Description of Study Area	13
Background Information	14
Data Sources	14
Hydrologic Units	16
Current Water Uses	16
Permitted Uses	16
Uses Not Requiring a Permit	27
Water Budget	27
Level-of-Service Index	30
Description of Hydrologic Units	31
Hydrologic Unit No. One (Dillard).....	31
Hydrologic Unit No. Two (Blairsville)	34
Hydrologic Unit No. Three (Blue Ridge)	35
Hydrologic Unit No. Four (Ringgold)	36
Hydrologic Unit No. Five (Trenton)	37
Results of Investigation	39
Summary of Findings.....	39
Basin-wide	39
By Hydrologic Unit.....	42
Hydrologic Unit No. One (Dillard).....	42
Hydrologic Unit No. Two (Blairsville).....	43
Hydrologic Unit No. Three (Blue Ridge)....	44
Hydrologic Unit No. Four (Ringgold).....	44
Hydrologic Unit No. Five (Trenton).....	45
APPENDICES	
A Ground Water in the Tennessee River Basin	46
B Water Use Projections.....	49
C References.....	53

These economic activities in the basin create modest demands for water use. Other industrial and urban activity also require water supplies. Agriculture uses little water for crop irrigation or for livestock watering at this time.

Water Quality in the Tennessee River Basin

Some of the tributary streams of the Tennessee River originate in the north Georgia mountains. These small tributary streams make up the total surface water available to the Tennessee River Basin that is within Georgia. The tributary streams include Little Tennessee River, Hiwassee River, Nottely River, Toccoa River, South Chickamauga and Lookout Creek.

The Environmental Protection Division (EPD) has classified State waters as to use and has established criteria applicable to each water use classification. Waters of the Tennessee River Basin have been generally classified as "primary or secondary trout waters". Primary trout streams are those in which trout naturally reproduce, while secondary trout streams are those in which trout do not reproduce but in which they will survive throughout the year.

The EPD and its predecessor agency, the Georgia Water Quality Control Board, have conducted intensive and special investigations of Georgia streams since 1965. Five active trend monitoring stations exist from which monthly samples are analyzed. Data from these sources are used in this account of water quality.

Surface and ground water quality in the Dillard vicinity are both generally good. Surface water quality typically meets established standards. Slight reductions in surface water quality resulting from wastewater treatment plant discharges and agricultural operations in Georgia have been observed in the Little Tennessee River near the Georgia/Tennessee state line.

Macroinvertebrate and water samples were collected from the Little Tennessee River on June 4, 1986, at the Georgia/North Carolina state line. Although the macroinvertebrate community was not as diverse as those of other streams in this region, it reflected good long-term water quality.

Water quality in surface streams in the vicinity of Blairsville is generally good and meets standards. High dissolved oxygen concentrations and low biochemical oxygen demand, nutrients, and fecal coliform bacterial densities have been reported.

Water quality throughout the vicinity of Blue Ridge is generally good for both surface and ground water. Surface waters are typically high in dissolved oxygen and low in biochemical oxygen demand, nutrients, and fecal coliform bacterial densities. Waters are in compliance with criteria of the water use classification of fishing.

Surface water quality in streams in and around Ringgold, Georgia is good. Data from EPD trend monitoring station indicated that the water of South Chickamauga Creek at Graysville, a short distance south of the Georgia-Tennessee state line, was of excellent quality in 1985 and 1986.

ENDANGERED AND THREATENED SPECIES

Reference No. 15



U.S. FISH AND WILDLIFE SERVICE

REGION 4 - ATLANTA

Federally Listed Species by StateGEORGIA

(E=Endangered; T=Threatened; CH=Critical Habitat determined)

MammalsGeneral Distribution

Bat, gray (<u>Myotis grisescens</u>) - E	Northwest, West
Bat, Indiana (<u>Myotis sodalis</u>) - E	Extreme Northwest
Manatee, West Indian (<u>Trichechus manatus</u>) - E	Coastal waters
Panther, Florida (<u>Felis concolor coryi</u>) - E	Entire state
Whale, finback (<u>Balaenoptera physalus</u>) - E	Coastal waters
Whale, humpback (<u>Megaptera novaeangliae</u>) - E	Coastal waters
Whale, right (<u>Eubalaena glacialis</u>) - E	Coastal waters
Whale, sei (<u>Balaenoptera borealis</u>) - E	Coastal waters
Whale, sperm (<u>Physeter catodon</u>) - E	Coastal waters

Birds

Eagle, bald (<u>Haliaeetus leucocephalus</u>) - E	Entire state
Falcon, American peregrine (<u>Falco peregrinus anatum</u>) - E	North
Falcon, Arctic peregrine (<u>Falco peregrinus tundrius</u>) - T	Coast, Northwest
Plover, piping (<u>Charadrius melodus</u>) - T	Coast
Stork, wood (<u>Mycteria americana</u>) - E	Southeastern swamps
Warbler, Bachman's (<u>Vermivora bachmanii</u>) - E	Entire state
Warbler, Kirtland's (<u>Dendroica kirtlandii</u>) - E	Coast
Woodpecker, ivory-billed (<u>Campophilus principalis</u>) - E	South, Southwest
Woodpecker, red-cockaded (<u>Picoides (=Dendrocopos) borealis</u>) - E	Entire state

Reptiles

Alligator, American (<u>Alligator mississippiensis</u>) - T(S/A)*	Coastal plain
Snake, eastern indigo (<u>Drymarchon corais couperi</u>) - T	Southeast

*Alligators are biologically neither endangered nor threatened. For law enforcement purposes they are classified as "Threatened due to Similarity of Appearance." Alligator hunting is regulated in accordance with State law.

GEORGIA (cont'd)

General Distribution

Turtle, Kemp's (Atlantic) ridley
(Lepidochelys kempi) - E
Turtle, green (Chelonia mydas) - T
Turtle, hawksbill
(Eretmochelys imbricata) - E
Turtle, leatherback
(Dermochelys coriacea) - E
Turtle, loggerhead (Caretta caretta) - T

Coastal waters
Coastal waters
Coastal waters
Coastal waters
Coastal waters

Fishes

Darter, amber (Percina antesella) - E, CH
Darter, snail (Percina tanasi) - T
Logperch, Conasauga
(Percina jenkinsi) - E, CH
Sturgeon, shortnose
(Acipenser brevirostrum) - E

Conasauga R., Murray County
S. Chickamauga Cr., Catoosa County
Conasauga R., Murray County
Coastal rivers

Plants

Baptisia arachnifera (hairy rattleweed) - E
Isotria medeoloides
(small whorled pogonia) - E
Lindera melissifolia (pondberry) - E
Oxypolis canbyi (Canby's dropwort) - E
Sarracenia oreophila (green pitcher plant) - E
Scutellaria montana
(large-flowered skullcap) - E
Torreya taxifolia (Florida torreya) - E
Trillium persistens
(persistent trillium) - E

Wayne, Brantley Counties
Rabun County
Wheeler County
Burke, Lee, Sumter Counties
Towns County
Floyd, Gordon, Walker Counties
Decatur County
Tallulah-Tugaloo River system,
Rabun and Habersham Counties

"Rite in the Rain."
WEATHERPROOF



LEVEL

NOTEBOOK NO. 311

F4-1992

FORT OGLETHORPE DRUM SITE

FORT OGLETHORPE, GEORGIA

TDD F4-8911-84

a product of

J. L. DARLING CORPORATION

TACOMA, WASHINGTON 98421 U.S.A.

Reference No. 16

LOGBOOK REQUIREMENTS
REVISED - NOVEMBER 29, 1988

NOTE: ALL LANGUAGE SHOULD BE FACTUAL AND OBJECTIVE

1. Record on front cover of the Logbook: TDD No., Site Name, Site Location, Project Manager.
2. All entries are made using ink. Draw a single line through errors. Initial and date corrections.
3. Statement of Work Plan, Study Plan, and Safety Plan discussion and distribution to field team with team members' signatures.
4. Record weather conditions and general site information.
5. Sign and date each page. Project Manager is to review and sign off on each logbook daily.
6. Document all calibration and pre-operational checks of equipment. Provide serial numbers of equipment used onsite.
7. Provide reference to Sampling Field Sheets for detailed sampling information.
8. Describe sampling locations in detail and document all changes from project planning documents.
9. Provide a site sketch with sample locations and photo locations.
10. Maintain photo log by completing the stamped information at the end of the logbook.
11. If no site representative is on hand to accept the receipt for samples, an entry to that effect must be placed in the logbook.
12. Record I.D. numbers of COC and receipt for sample forms used. Also record numbers of destroyed documents.
13. Complete SMO information in the space provided.

I have read and understood
the work plan

Bob Don, here
2/7/90

2

Site is located immo.ely
off of Rt 2 (Battlefield)
Walkway behind
Battlefield Elementary
School.

There is no evidence of
any drums or other
refugees west behind
the Elementary School

There is a playground and
a baseball field immediately
adjacent to the former
drum area

The whole area is fenced
with a chain link fence
(unsecured).

South of the open field
is the Lakeview apartment
which are the closest

BD
2/7/90

residence.

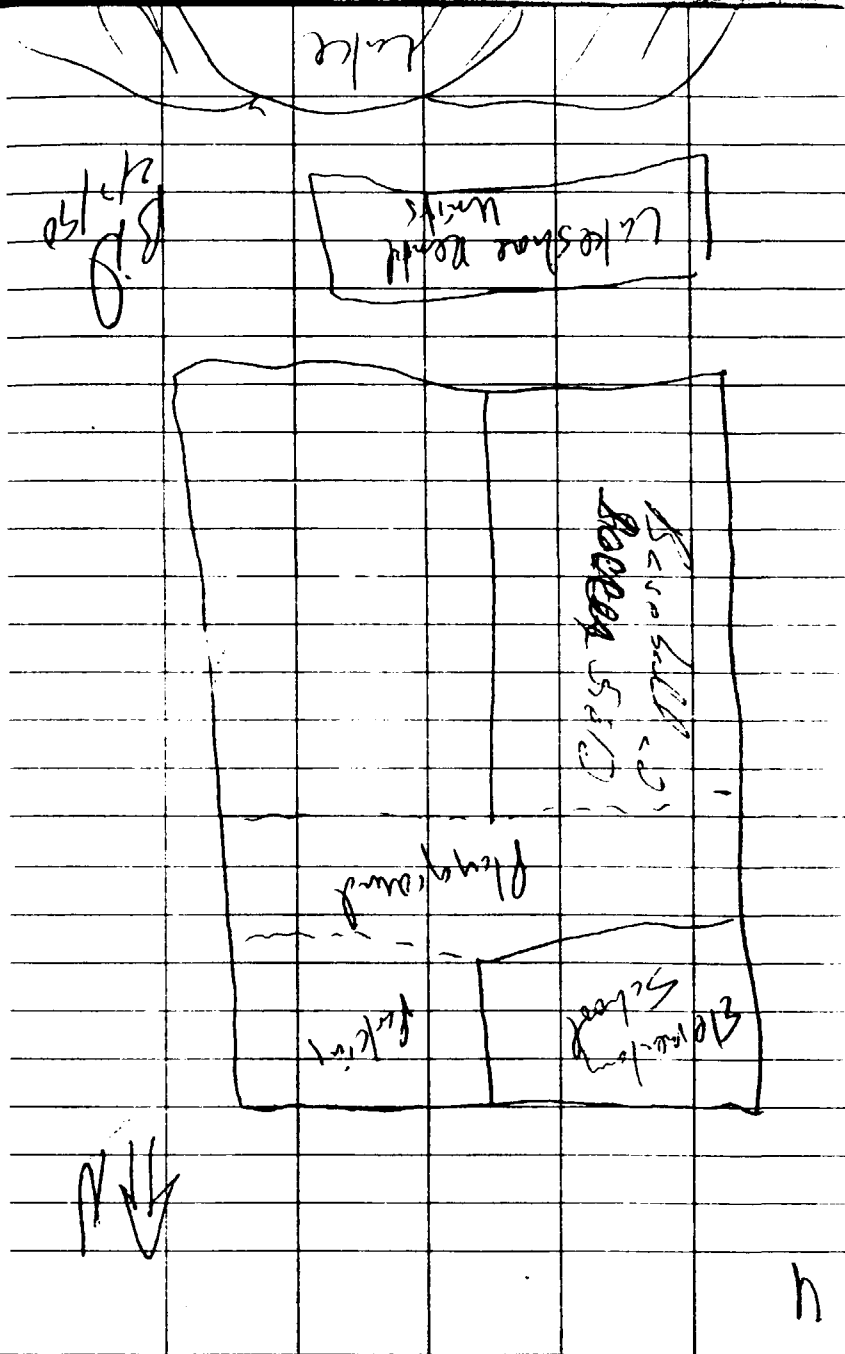
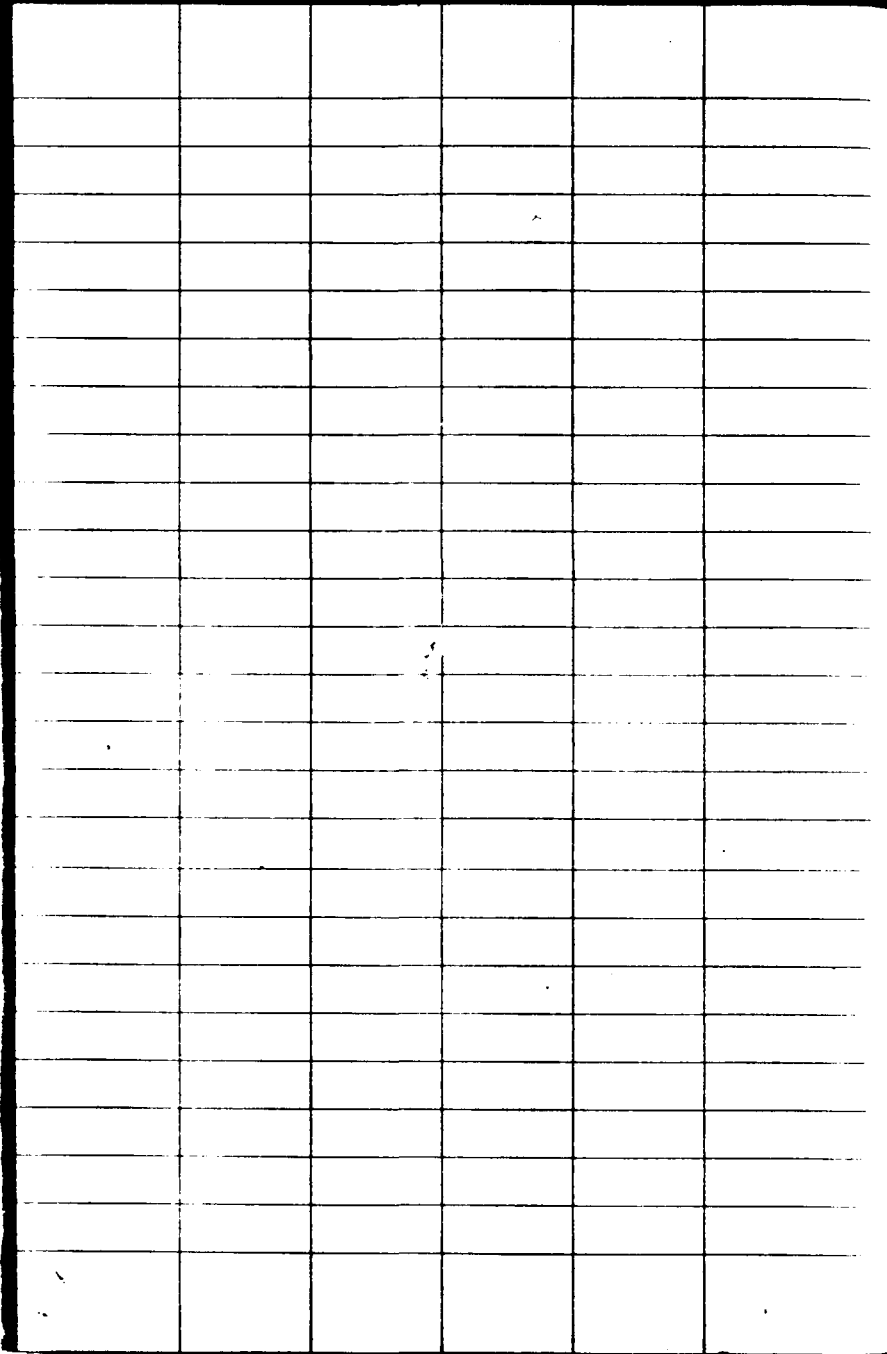
The are located along a
fairly large lake.

The Lakeview-Battlefield
High School is located about
 $\frac{1}{2}$ mile west of elementary
school.

West Chickamauga Creek
is located several hundred
feet to the west.

The area around the
site is served by
public water.

BD
2/7/90



8.10
2/1/50

Lake

Lakeshore Road
Units

K-50 Building
Boys' 54/10

Playground

Kitchen

Boys' School

4/11

4

RECEIVED
NATIONAL ENVIRONMENTAL DEFENSE
AGENCY

1

IN FOR AUGUST 1989

OUT FROM DISTRIBUTION

EMERGENCY RESPONSE SECTION - REGION IV DISTRIBUTION

DOCUMENT DISTRIBUTION

Contract No.: 68-01-6859 Haztech, Inc.
Contract Award Date: 5280 Panola Industrial Blvd.
Contract Expiration Date: Decatur, GA 30035
Delivery Order No: 6859-04-051
Modification No: 2

DIS No DISTRIBUTION TO

- ___ 1 Paying Office (Original) - RTP
- ___ 1 Contractor (Original) - Delivered AUG 10 1989
- ___ 1 Contract File (Original) - Filed
- ✓ 1 Project Officer - Fred Stroud (Region IV)
EPA Region IV, 345 Courtland St, NE, Atlanta, GA 30365
- ✓ 1 On-Scene Coordinator - Shane Hitchcock (Region IV) (___)
EPA Region IV, 345 Courtland St, NE, Atlanta, GA 30365
- ✓ 1 Finance - Angela Stevens (Region IV) (___)
- ✓ 1 Contract Property - Anthony Borda (PM-215)
- ✓ 1 Superfund Accounting Branch, William Cooke (PM-226F)
- ✓ 1 Program Assist. Unit, (Chief) - Lisa Karpf (A-109)
- ✓ 1 OIG - Richard A. Solomon - (___) Southern Audit Division
EPA Region IV, Suite 276, 1375 Peachtree St, NE,
Atlanta, GA 30309
- ✓ 1 Contract Specialist - YOUNGER-(PM214-F)
- ✓ 1 Document distribution Unit (For Filing)
- ___ 1 Other

Distribution Requested By:

Distribution Made By:

Date

Date

DDY 2099 JCM
8-10-89

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

		1. CONTRACT ID CODE
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	
Two (2)		
4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)	
6. ISSUED BY	7. ADMINISTERED BY	
Code:	(If other than Item 6)	
Environmental Protection Agency	Code:	
Emergency Response Branch		
401 M Street, SW (PM 214-F)		
Washington, DC 20460		
8. NAME AND ADDRESS OF CONTRACTOR	9A. AMENDMENT OF SOLICITATION NO.	
(No., Street, County, State	9B. DATED (See Item 11)	
and Zip Code)		
HAZTECH, Inc.	10A. MOD. OF CONTRACT/ORDER NO.	
5350 Snapfinger Woods Drive	6859-04-051	
Decatur, GA 30035-4013	10B. DATED (See Item 13)	
	1/25/85	
Code:	Facility:	
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS		
<p>[] The above numbered solicitation is amended at set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [] is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p>		
12. ACCOUNTING AND APPROPRIATION DATA (If required)		

N/A

APPRO

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACT/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

[] A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ORDER NO. IN ITEM 10A.

[] B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAT 43.103(B).

[X] C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: ARTICLE XV - DEFINITIZATION OF DELIVERY ORDERS

[] D. OTHER (Specify type of modification and authority)

E. IMPORTANT: contractor [] is not, [X] is required to sign this document and return 3 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible).

SEE ATTACHED PAGE

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

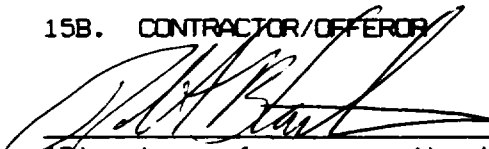
15A. NAME AND TITLE OF SIGNER
(Type or Print)

ROBERT B. CARTON
Controller

16A. NAME AND TITLE OF CONTRACTING OFFICER
(Type or Print)

DAVID R. YOUNGER
Contracting Officer

15B. CONTRACTOR/OFFEROR


(Signature of person authorized to sign)

16B. UNITED STATES OF AMERICA


(Signature of Contracting Officer)

15C. DATE SIGNED

2/9/89

16C. DATE SIGNED

AUG 10 1989

APPROVED BY OIRM 3/84, FAR (48 CFR 53.214(c)) EXCEPTION TO STANDARD FORM 30

Modification No: 002
Delivery Order 6859-04-051
Page 3 of 3

NOTICE OF DEFINITIZATION OF DELIVERY ORDER

The purpose of this modification is to set forth the final total cost of Delivery Order 6859-04-051.

1. The final total cost of the Delivery Order is \$6,000.00 (ceiling amount). Whereas the Contractor has already received payments totalling \$5,991.84, a final payment is due the contractor in the amount of \$8.16. The Contractor shall submit a final invoice for payment to the Environmental Protection Agency as specified in ARTICLE XIII, SUBMISSION OF INVOICES, Section F.

2. CONTRACTOR'S STATEMENT OF RELEASE

In consideration of this modification agreed to herein as a complete final payment for the contractor's immediate waste removal activities at the Ft. Oglethorp Drum Site at Ft. Oglethorp, GA, the contractor hereby releases the Government from any and all liability under the contract for further payment, except in those circumstances specified in ARTICLE XII, CONSIDERATION AND PAYMENT, Section O.

ATTN: Tim FIELDS, ~~EPA~~-HQ
George Moein, Region IV

Subject: Ft Oglethorpe Drum Site, Ft Oglethorpe, GA
POLREP 2 and final

Situation:

February ~~8~~²², 1985 - ~~Hazardous Drum~~ Two drums containing hazardous waste were picked up and transported to Chemical Waste Management for disposal. 30 drums of nonhazardous latex waste were disposed of at the Catoosa County Landfill by county personnel.

Estimated Cost to date: \$ 7,000

A. Shane Hitchcock

2-5-85 Data relayed by Bert Langley

Solid Dye

Flash	>140
pH	9
Cr.	11,200 ppm total EP Tox 34 ppm
Diethyl/Phthalate	7,100 ppm
Sodium	16,000 ppm
<u>Glue</u>	
Flash	>140
pH	7.8
Sodium	4430

Liquid Dye

Flash	>140
pH	7.0
Sodium	145 ppm
K	14,000

Flash	>140
NO METALS	
AL	745 ppm - 185 ppm

SEPA ATL

WJ INFOMASTER 4-0104835032-002 02/01/85

ICS IFMBNGZ CSP

4048813931 DGM TDBN ATLANTA GA 123 02-01 1057A EST

TW 8107518145 EPA ATL

1327 EPA

TO: GEORGE MOEIN - REGION 10

TIM FIELDS - HEADQUARTERS

SUBJECT: FT OGLETHORPE DRUM SITE, FT OGLETHORPE, GEORGIA
POLREP 1

SITUATION

JANUARY 25, 1985 - EPA RESPONDED TO A REPORT OF LEAKING DRUMS OF UNKNOWN SUBSTANCE AND ORIGIN AT THE SUBJECT SITE THE SPILLAGE FROM THE DRUMS WAS LEADING TO AN UNNAMED CREEK WHICH FED INTO THE CATOOSA RIVER, WHICH IS USED AS A WATER SUPPLY THE ERCS CONTRACT WAS INITIATED ON 1-25-85 TO STAGE AND SAMPLE THE DRUMS TO DETERMINE IF HAZARDOUS WASTE WERE PRESENT. ANALYSIS WERE CONDUCTED BY THE GA-EPD

JANUARY 31, 1985 - ANALYSIS SHOWED 3 OF 34 DRUMS CONTAINED HAZARDOUS SUBSTANCES. THESE DRUMS WERE OVERPACKED AND SEGREGATED. DISPOSAL APPROVAL PENDING.

ESTIMATED COST TO DATE: \$5,000

A. SHAVE HITCHCOCK, OSC

A. SHAVE HITCHCOCK

1059 EST

EPA ATL

ACTION MEMORANDUM

DATE: FEB 07 1985

SUBJECT: Immediate Removal Authorization for the Ft. Oglethorpe Drum Site, Ft. Oglethorpe, Georgia

FROM: On-Scene Coordinator
Emergency Response and Control Section

TO: Files

PURPOSE

- A. This memorandum is for authorization to proceed with an emergency removal action for S 10,000 at the Ft. Oglethorpe Drum Site in Ft. Oglethorpe, Georgia. A significant threat to public health and the environment existed at this site and would have worsened if response had been delayed.

BACKGROUND

A. Site Setting/Description:

1. The Ft. Oglethorpe Drum Site is located behind Battlefield Elementary School off Battlefield Parkway in Ft. Oglethorpe, Georgia.
2. At the Ft. Oglethorpe Drum Site 33 drums of unknown wastes were abandoned behind Battlefield Elementary School. Some of the drums had spilled their contents on the ground.
3. No security exists to prevent nearby school children from coming into direct contact with the wastes. No natural containment prevents migration of spilled material.
4. A creek is located approximately 200 feet from the drums as is a recreational lake.

B. Quantity and Types of Substances Present:

Initial response actions were initiated without knowledge of the types of waste present. The wastes that had spilled were migrating along a drainage ditch toward a nearby creek which fed into the Catoosa River, a local water supply. A total of 33 drums of wastes were present. It is now known that several drums contained chromium and diethyl phthalate.

C. The site is not on the NPL.

THREAT

- A. Although the drums were of unknown origin and content, the spillage threatened a local drainage basin that serves as a water supply and the potential for exposure to nearby school children existed.
- B. All leaking drums were secured and samples were collected for analyses by GA-EPD to determine if the wastes were hazardous. No further site actions were conducted prior to that determination.
- C. Receipt of analyses revealed hazardous substances were present in only a few drums. These drums were subsequently overpacked and are awaiting disposal at a hazardous waste landfill pending approval. The remainder of the drums will be disposed of by the county in the local landfill in coordination with GA-EPD.

ENFORCEMENT

See Attachment # 1

PROPOSED PROJECT AND COST

- A. Objectives of the project were first to secure wastes and determine if hazardous substances were present. The subsequent steps are to make necessary arrangements for the disposal of hazardous and non-hazardous wastes present at the site.

B. COSTS

FRCS Cost thru Completion:	\$ 9,000
Intramural Costs:	\$ 1,000
Total Costs:	\$ 10,000

C. Project Schedule:

Initial response took place on January 25, 1985. Drums were secured and segregated on January 31, 1985. We are currently waiting for disposal approval to transport wastes to a hazardous waste facility.

REGIONAL AUTHORIZATION

Because conditions at the Ft. Oglethorpe Drum Site meet the NCP section 300.65 criteria for an immediate removal, I, as On-Scene Coordinator authorize expenditures not to exceed \$ 10,000 through procurement authority delegated to me under Authority Number 84-7-0A-118.

A. Shane Hitchcock
On-Scene Coordinator
Emergency Response and Control Section

Date

cc: Charles P. Jeter
Thomas W. Devine

PSW 4/7/85

Attachment # 1

ENFORCEMENT

The persons responsible for dumping the drums at the Ft. Oglethorpe Drum Site are unknown. The origin of the drums is also unknown since the drums had no markings.

Fred Morris, Ft. Oglethorpe Board of Alderman, was asked if the city would pay for the removal. Mr. Morris explained that the city did not have funds available to do the cleanup.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

DELIVERY ORDER FOR EMERGENCY RESPONSE CLEANUP SERVICES

(This delivery order is issued subject to all terms and conditions of the contract identified in Block 2.)

1. DATE OF ORDER 1/15/85		2. CONTRACT NUMBER 68-01-6852		3. ORDER NUMBER 68-01-04-001	
4. TIME OF INITIAL ORDER (If initial order was verbal) (Specify Time Zone) 3:35PM <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM		5. DELIVERY ORDER CEILING AMOUNT (Obligated Amount) \$ 6,000			
		6. ACCOUNTING AND APPROPRIATION DATA			
		Appropriation Number 68-2018145	Document Control No.	Account Number STFA04DENI	Object Class 23.05
7a. ISSUED TO: CONTRACTOR (Name, Address, and ZIP Code) Baztech 2200 Panola Ind. Blvd. Decatur, Georgia 30035		8a. ISSUED BY: ORDERING OFFICE (Name, Address, and ZIP Code) EPA - EMER 345 Courtland Street, NE Atlanta, Georgia 30365			
7b. PROGRAM MANAGER (Name and Phone Number) Gary Clemons 404-981-9332		8b. EPA REGION/USCG DISTRICT IV		8c. ZONE II	
7c. RESPONSE MANAGER (Name and Phone Number) Paul Clingan 404-981-9332		8d. ON-SCENE COORDINATOR (Name and Phone Number) A. Shane Hitchcock 404-981-3701			
9. RESPONSE LOCATION (Site Name and/or Address and ZIP Code) 1. Oglethorpe Drum Site 2. Oglethorpe, Georgia		10. CONTRACTOR REQUIRED ON SITE (Date and Time) (Specify Time Zone) 1-25-85 7:30 <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM			
		11. REQUIRED WORK COMPLETION DATE 2/15/85			

12. STATEMENT OF WORK

The Contractor shall furnish the necessary personnel, materials, services, facilities, and otherwise do all things necessary for or incident to the performance of the work set forth below:

contain spilled material stage drums and sample drums make necessary disposal arrangements. Transport waste to an approved disposal facility.

13. ORDERING OFFICER

NAME/TITLE A. Shane Hitchcock, OSC	SIGNATURE 	DATE 2-6-85
---------------------------------------	---------------	----------------

STANDARD FORM 30, JULY 1966 GENERAL SERVICES ADMINISTRATION FED. PROC. REG. (41 CFR) 1-16.101		AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		PAGE 1 OF 1	
1. AMENDMENT/MODIFICATION NO. ONE (1)		2. EFFECTIVE DATE FEB 25 1985		3. REQUISITION/PURCHASE REQUEST NO. WA95-H197	
4. PROJECT NO. (If applicable) 		5. ISSUED BY Environmental Protection Agency Procurement Section H (PM-214-F) 401 M Street S.W. Washington, D.C. 20460		6. ADMINISTERED BY (If other than block 5) 	
7. CONTRACTOR NAME AND ADDRESS <div style="border: 1px solid black; padding: 5px; margin: 5px;"> Hazardous Waste Technology Services, Inc. 5280 Panola Industrial Blvd Decatur, Georgia 30035 </div>		8. AMENDMENT OF SOLICITATION NO. DATED _____ (See block 9)		9. MODIFICATION OF CONTRACT/ORDER NO. 68-01-6859 D.O.: 6859-04-051 DATED 01/25/85 (See block 11)	
10. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS <input type="checkbox"/> The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted, or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
11. ACCOUNTING AND APPROPRIATION DATA (If required) See Below.					
12. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS (a) <input type="checkbox"/> This Change Order is issued pursuant to _____ The Changes set forth in block 12 are made to the above numbered contract/order. (b) <input checked="" type="checkbox"/> The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 12. (c) <input type="checkbox"/> This Supplemental Agreement is entered into pursuant to authority of _____ It modifies the above numbered contract as set forth in block 12.					
13. DESCRIPTION OF AMENDMENT/MODIFICATION <p>The purpose of this modification is to correct the accounting and appropriation data recorded on the Delivery Order No.: 6859-04-051.</p> <p>ACCORDINGLY:</p> <p>1. Block No. 6 of the Delivery Order No. 6859-04-051 (EPA Form 1900-59) is hereby changed to read as follows:</p> <p style="padding-left: 40px;">"68/20X8145 CH1001 STFA04DEH1 25.35"</p> <p>2. Except as expressly specified above, all other terms and conditions remain unchanged and in full force and effect.</p>					
Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changes, remain unchanged and in full force and effect.					
14. NAME OF CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign)					
15. UNITED STATES OF AMERICA BY <u>Thomas A. O'Connell</u> (Signature of Contracting Officer)					
16. NAME AND TITLE OF SIGNER (Type or print)		17. DATE SIGNED		18. NAME OF CONTRACTING OFFICER (Type or print)	
 		 		Thomas A. O'Connell	
 		 		2/25/85	

US ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 PROCUREMENT REQUEST/ORDER		1. NAME OF ORIGINATOR Shane Ritchcock		2. DATE OF REQUISITION 2/11/85			
		3. MAIL CODE	4. TELEPHONE NUMBER FIS-257-3931		5. DATE ITEM REQUIRED		
6. SIGNATURE OF ORIGINATOR			7. RECOMMENDED PROCUREMENT METHOD <input type="checkbox"/> Competitive <input type="checkbox"/> Noncompetitive				
8. DELIVER TO (Project Manager) Shane Ritchcock		9. ADDRESS 345 Courtland St., Atl. GA		10. MAIL CODE			
				11. TELEPHONE NUMBER FIS-257-3931			
12. FINANCIAL DATA (a) APPROPRIATION 68-2000145			NOTE: ITEM 12 (c) DOCUMENT TYPE—CONTRACT = "C," PURCHASE ORDER = "P," IGA = "A," OTHER (Misc.) = "X"				
FMO USE (b) (13 digits)		D T (c)	DOCUMENT CONTROL NUMBER (d) (6 digits)	ACCOUNT NUMBER (e) (10 digits)	OBJECT CLASS (f) (4 digits)		
			CW1001	987654321	25.35		
					6,000		
13. SUGGESTED SOURCE (Name, Address, ZIP Code, Phone/Contact)			14. AMOUNT OF MONEY COMMITTED IS: <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> INCREASE <input type="checkbox"/> DECREASE		15. CONTRACTING OFFICE <input type="checkbox"/> IS <input type="checkbox"/> IS NOT AUTHORIZED TO EXCEED AMOUNT SHOWN BY 10%		
					16. SERVICING FINANCE OFFICE NUMBER		
17. APPROVALS							
a. BRANCH/OFFICE		DATE		d. PROPERTY MANAGEMENT OFFICER/DESIGNEE			
				DATE			
b. DIVISION/OFFICE		DATE		e. OTHER (Specify)			
				DATE			
c. FUNDS LISTED ABOVE ARE AVAILABLE AND RESERVED		DATE		e. OTHER (Specify)			
				DATE			
18. DATE OF ORDER 1/25/85		19. ORDER NUMBER 6859-04-051		20. CONTRACT NUMBER (if any) 68-01-6059			
				21. DISCOUNT TERMS			
22. FOB POINT		23. DELIVERY TO FOB POINT BY On or before (Date)		24. PERSON TAKING ORDER/QUOTE AND PHONE NO.			
25. CONTRACTOR (Name, address, ZIP Code)			26. TYPE OF ORDER <input type="checkbox"/> a. PURCHASE		REFERENCE YOUR QUOTE (See Block 24)		
			PLEASE FURNISH THE ABOVE ON THE TERMS SPECIFIED ON BOTH SIDES OF THIS ORDER AND ON THE ATTACHED SHEETS, IF ANY, INCLUDING DELIVERY AS INDICATED. THE PURCHASE IS NEGOTIATED UNDER AUTHORITY OF 41 USC 252(c) ().				
			<input type="checkbox"/> b. DELIVERY PROVISIONS ON THE REVERSE ARE DELETED. THE DELIVERY ORDER IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. (See Block 20)				
			c. <input type="checkbox"/> ORAL <input type="checkbox"/> WRITTEN <input type="checkbox"/> CONFIRMING				
27. SCHEDULE							
ITEM NUMBER (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	ESTIMATED UNIT PRICE (e)	UNIT PRICE (f)	AMOUNT (g)	QUANTITY ACCEPTED (h)
	Emergency removal for Ft. Oglethorpe Drum Site, Ft. Oglethorpe, GA						
TOTAL \$							
28. UNITED STATES OF AMERICA BY (Signature)				29. TYPED NAME AND TITLE OF CONTRACTING OFFICER			

Overtime in Office

4-1-97 Stanley A. Denson

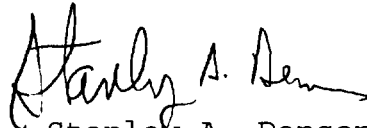
4:30 pm TO 5:30pm - 1 HOUR

4-2-97

1 HR

4-3-97

1 HR



Signed: Stanley A. Denson

APR - 7 1997

CONTRACT NO: 68-01-6859

DELIVERY ORDER NO: 6859-04-036

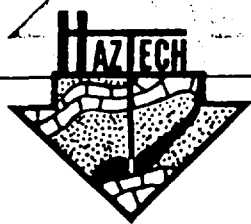
On-Scene Coordinator's Certification

I certify to the best of my knowledge and belief that the services shown on the invoice have been performed and are accepted.

5/8/86
Date

A. Stone
On-Scene Coordinator

INVOICE



HAZARDOUS WASTE TECHNOLOGY SERVICES

3300 Marjan Drive
Atlanta, Ga. 30340
Phone (404) 451-9877

Please Mail Remittance to:
P.O. 65278
Charlotte, N.C. 28265
Please return one copy
of invoice with payment

YOUR CONTRACT NO.	YOUR ORDER NO.	YOUR JOB NO.	INDIVIDUAL AUTHORIZING WORK	(12) DATE	INVOICE NO.
68-01-6859	6859-04-036		MICHAEL NORMAN	11/26/85	A 00637

MAILING ADDRESS:

INVOICED AND CHARGED TO THE ACCOUNT OF:

EPA, FINANCIAL MANAGEMENT DIVISION
CONTRACTS, FINANCIAL OPERATIONS AND
INFORMATION SECTION (MD-32)
RESEARCH TRIANGLE PARK, NC 27711

Terms: Net 30 Days

OUR DEPT. NO.	OUR JOB NO.	JOB NAME OR SERVICE RENDERED	
2321	321-84-207	BESSIE RUNNER PROPERTY	GA

THIS INVOICE - - - - - \$10,596.43

*** NOTE EPA INVOICE NO. IS: 84-207-1

PROJECT MANAGER

Gay P. Blumens

CLIENT'S

JANET FALLIN
EPA
WASHINGTON, DC

WE NORMALLY DO NOT SEND COPIES OF INVOICES TO CLIENTS AS THEY ARE FOR
INTERNAL PURPOSES ONLY BUT WOULD LIKE YOU TO KNOW THAT WE ARE ISSUING
TWO CREDITS ON DELIVERY ORDER # 6859-04-039 AND REINVOICING DELIVERY
ORDER #6859-04-036.

SINCERELY

Colleen Kramlich

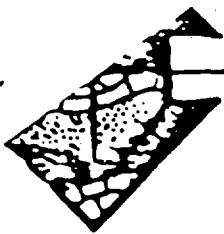
COLLEEN KRAMLICH

HAZTECH ACCOUNTING DEPT.

CC

PHYLLIS LANG

HAZTECH



HAZAROUS WASTE TECHNOLOGY SERVICES

3300 Marjan Drive, N.E., Atlanta, Georgia 30340, Phone (404) 451-9877

CONTRACT NO.	YOUR ORDER NO.	YOUR JOB NO.	INDIVIDUAL AUTHORIZING WORK	(12) DATE	INVOICE NO.
68-01-6859	6859-04-039		SUE FIELDS	11/26/85	cm 24

MAILING ADDRESS:

INVOICED AND CHARGED TO THE ACCOUNT OF:

EPA, FINANCIAL MANAGEMENT DIVISION
CONTRACTS, FINANCIAL OPERATIONS AND
INFORMATION SECTION (MD-32)
RESEARCH TRIANGLE PARK, NC 27711

Terms: Net 30 Days

P.T. NO.	OUR JOB NO.	JOB NAME OR SERVICE RENDERED
2321	321-85-219	AMERICAN CREOSOTE LOUISVILLE, MS

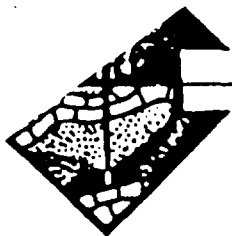
CREDIT ISSUED ON INVOICE # A00578 *no record of this here of me*
DATED 9/25/85, IN THE AMOUNT OF \$400.50

Issued on Invoice # 00637, dated 11/16/85 in the amount
\$ 10,596.43

Issued to: _____

Reason for CREDIT: \$10,596.43 WAS PAID FROM DELIVERY ORDER #6859-04-039 WHEN IT SHOULD HAVE BEEN
PAID FROM DELIVERY ORDER #6859-04-036

Approved by: *J. Martinez*



HAZARDOUS WASTE TECHNOLOGY SERVICES

3300 Marjan Drive, N.E., Atlanta, Georgia 30340, Phone (404) 451-9877

OUR CONTRACT NO.	YOUR ORDER NO.	YOUR JOB NO.	INDIVIDUAL AUTHORIZING WORK	(12) DATE	INVOICE NO.
68-01-6859	6859-04-039		SUE FIELDS	11/26/85	CM 24

MAILING ADDRESS:

INVOICED AND CHARGED TO THE ACCOUNT OF:

EPA, FINANCIAL MANAGEMENT DIVISION
CONTRACTS, FINANCIAL OPERATIONS AND
INFORMATION SECTION (MD-32)
RESEARCH TRIANGLE PARK, NC 27711

Terms: Net 30 Days

OUR DEPT. NO.	OUR JOB NO.	JOB NAME OR SERVICE RENDERED	
2321	321-85-219	AMERICAN CREOSOTE	LOUISVILLE, MS

CREDIT ISSUED ON INVOICE # A00581

DATED 9/25/85 IN THE AMOUNT OF \$10,195.93

Reissued on Invoice # 00637, dated 11/26/85 in the amount
of \$ 10,596.43

Reissued to: _____

Reason for CREDIT: \$10,596.43 WAS PAID FROM DELIVERY ORDER #6859-04-039 WHEN IT SHOULD HAVE
BEEN PAID FROM DELIVERY ORDER #6859-04-036

Approved by: *[Signature]*

INVOICE



HAZARDOUS WASTE TECHNOLOGY SERVICES

3300 Marjan Drive
Atlanta, Ga. 30340
Phone (404) 451-9877

Please Mail Remittance to:
P.O. 65278
Charlotte, N.C. 28265
Please return one copy
of invoice with payment

YOUR CONTRACT NO.	YOUR ORDER NO.	YOUR JOB NO.	INDIVIDUAL AUTHORIZING WORK	(8) DATE	INVOICE NO.
68-01-6859	6859-04-051		A. SHANE HITCHCOCK	7/29/85	A00500

MAILING ADDRESS:

INVOICED AND CHARGED TO THE ACCOUNT OF:

EPA, FINANCIAL MANAGEMENT DIVISION
CONTRACTS, FINANCIAL OPERATIONS AND
INFORMATION SECTION (MD-32)
RESEARCH TRIANGLE PARK, NC 27711

Terms: Net 30 Days

OUR DEPT. NO.	OUR JOB NO.	JOB NAME OR SERVICE RENDERED
321 1,158.12	321-85-015	FT. OGLETHORPE DALTON, GA.

COST SUMMARY:

TOTAL FROM 1900-55-----\$ 582.00
(see exhibit - page 2)

TOTAL AWAIT BILLS----- 576.12
(see exhibit - page 2)

TOTAL INVOICE \$ 1,158.12

***NOTE EPA INVOICE NO. IS 85-015-2

PROJECT MANAGER

Cary P. Chambers

CLIENT'S

<u>DATE</u>	<u>PERSONNEL</u>	<u>EQUIPMENT</u>	<u>MATERIAL</u>	<u>SUBCONTRACTOR</u>	<u>DAILY TOTAL</u>
2/08/85	<u>489.00</u>	<u>93.00</u>	-----	-----	<u>582.00</u>
TOTAL 1900-55 FORMS	489.00	93.00			582.00

AWAIT BILLS

<u>DATE</u>	<u>NAME</u>	<u>AMOUNT</u>
1/31/85	Federal Express (Chemical Waste Shipment)	32.93
2/08/85	St. Joseph (Transportation)	164.20
2/08/85	Chemical Waste/St. Joseph (Disposal)	<u>351.56</u>
	Sub Total	548.69
	5% Mark Up	<u>27.43</u>
	TOTAL AWAIT BILLS	576.12

ADJUSTMENTS

NONE

CHECK NO. 002691

REMITTANCE ADVICE

DESCRIPTION	INVOICE NUMBER	DATE	ACCOUNT NUMBER	INVOICE AMOUNT	DISCOUNT	NET AMOUNT
5-017-41702	5-017-41702		331/540	55.00		55.00
	5-027-65340		363/540	19.50		19.50
			361/540	87.25		87.25
			311/540	2993.00		295.00
			341/540	9.75		9.75
			342/540	7.00		7.00
Advance D. Clingan			000/234	9.75		9.75
321-84-223			321/534	9.75		9.75
322-85-014			322/534	53.36		53.36
321-85-007			321/534	9.75		9.75
326-85-015			325/534	32.93		32.83
321-84-228			321/534	156.72		156.72
321-85-003			321/534	44.00		44.00
						789.76

HAZTECH
Atlanta, Georgia

HAZTECH

HAZARDOUS WASTE TECHNOLOGY SERVICES

CHECK NO. 2691

3300 Marjan Drive, N.E., Atlanta, Georgia 30340, Phone (404) 451-9877

84-5
810

The Citizens and Southern
National Bank
Atlanta, Georgia

PAY TO THE ORDER OF SEVEN HUNDRED EIGHTY NINE DOLLARS AND 76/100 DATE 3-7-85

789.76

Federal Express Corp
P.O. Box 727
Memphis, TN 38194-9999

NON-NEGOTIABLE

0002691 00610000524 046 23 237



BILL TO: HAZARDOUS WASTE TECHNOLOGY
5280 PANOLA IND BLVD
DECATUR, GA 30035

SENDER ACTIVITY SUMMARY

INVOICE NO. 5-027-65340 ACCOUNT NO. 1127-0498-1
PAGE 4 OF 12
DATE 02/21/85

TRACKING NOS REFERENCE	SENDER'S NAME AND ACCOUNT ADDRESS	RECIPIENT INFORMATION AND PROOF OF DELIVERY	PACKAGES & WEIGHT	SERVICES	CHARGES	NET CHARGES
✓ 495424882 36/	COLLEEN R KRAHLICH HAZARDOUS WASTE TECHNOLOGY 5280 PANOLA IND BLVD DECATUR, GA 30035	EPA EPA FINANCIAL MANAGEMENT DIVI CONTRACTS FINANCIAL OPERATION DURHAM, NC 27709 AA DELIVERED 02/06/85 10:26 SIGNED: P BANNERMAN	1/ NA	OVRNIGHT LTR DISCOUNT	14.00 -4.25	
3240477	SHIPPED 02/05/85					9.75
✓ 495424893 34/	S CUNNINGHAM HAZARDOUS WASTE TECHNOLOGY 5280 PANOLA IND BLVD DECATUR, GA 30035	BILL WARNER 636 S COREY ST FINDLAY, OH 45840 AA DELIVERED 02/06/85 11:22 SIGNED: P WARNER	1/ NA	OVRNIGHT LTR DISCOUNT	14.00 -4.25	
3263747	SHIPPED 02/05/85					9.75
✓ 344984205 108 325 85019 5 2734078 015	DAN CLINGAN HAZARDOUS WASTE TECHNOLOGY 5280 PANOLA IND BLVD DECATUR, GA 30035	MR JIM BUCKLEY CHEM-WASTE MANAGEMENT HWY 17 MILE MARKER 163 EMELLE, AL 35489 01 DELIVERED 02/07/85 13:00 SIGNED: HAMMAS	1/	PRIORITY 1 DISCOUNT	37.00 -4.07	32.93

CONTINUED NEXT PAGE

POOR LEGIBILITY

**PORTIONS OF THIS DOCUMENT
MAY BE UNREADABLE, DUE TO
THE QUALITY OF THE
ORIGINAL**

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26



*** ORIGINAL	***
*** FREIGHT	***
*** BILL	***

RECEIVED

MAY 13 1986
MAY 13 1986

INVOICE DATE: 05/03/85

HAZTECH

PAGE

: 1

RECEIVED

MAY 6 1965

Haztech
5280 Panola Ind. Blvd.
Decatur, GA 30035-4013

YOUR BILL NO : USEPA REG.4/CWMA 166283TERMS NET 7
OUR BILL NO : 4186-W-4
BILL DATE : 05/03/85
SHIP DATE : 2/8/85

HAZTECH

ITEM	MILES	SHP	DESCRIPTION	PRICED	AMOUNT
1		1	LAB FEES	150.00	150.00
2		2	DISPOSAL (85 GAL DRUMS)	47.00	94.00
3		1	FED. TAX	0.94	0.94
4		1	STATE TAX	6.18	6.18
5		1	HAZ.MONITORING TAX	0.44	0.44
6		1	HANDLING FEE	100.00	100.00

U.S. EPA Region IV, Ft. Oglethorpe
2/8/85
ChemWaste

321-85-015

SUBTOTAL: 351.56
TOTAL

=====

351.56

CHECK NO. 002644

REMITTANCE ADVICE

DESCRIPTION	INVOICE NUMBER	INVOICE DATE	ACCOUNT NUMBER	INVOICE AMOUNT	DISCOUNT	NET AMOUNT
321-85-015 wip	5873	2-14	321/502	164.20		164.20

HAZTECH
Atlanta, Georgia

HAZTECH

HAZARDOUS WASTE TECHNOLOGY SERVICES

CHECK NO. 2644

3300 Marjan Drive, N.E., Atlanta, Georgia 30340, Phone (404) 451-9877

64-5
810

The Citizens and Southern
National Bank
Atlanta, Georgia

PAY TO THE ORDER OF ONE HUNDRED SIXTY FOUR DOLLARS AND 20/100 * DATE 3-5-85

164.20

5724

St. Joseph Motor Lines
5724 New Peachtree Road
Atlanta, GA 30341

NON-NEGOTIABLE

002644 (b) (4)

St. Joseph Motor Lines
5724 New Peachtree Road
Atlanta, GA 30341

*** ORIGINAL ***
*** FREIGHT ***
*** BILL ***

ACCOUNT NUMBER: 1750

INVOICE NO. : 5873

INVOICE DATE: 02/14/85

PAGE : 1

=====

Haztech
5280 Panola Ind. Blvd.
Decatur, GA 30035-4013

=====

YOUR BILL NO : USEPA REG.4/CWMA 166283TERMS NET 7
OUR BILL NO : 4186-W-4
BILL DATE : 02/14/85
SHIP DATE : 2/8/85

ITEM	MILES	SHR	DESCRIPTION	PRICED	AMOUNT
1	2		DRUMS-FORT OGLETHORPE, GA	62.10	124.20
			TO EMELLE, AL	0.00	0.00
2	1		STOP OFF CHARGE	40.00	40.00

321-85-015

Booked
2.23-85

APPROVED FOR PAYMENT HAZTECH-ATLANTA		
ACCT. NO.	AMOUNT	APPROVAL
321/502	164.20	

IF YOU ARE NOT SATISFIED WITH ST. JOSEPH'S SERVICE

CALL VERNON LEMMON, PRESIDENT 1-800-241-0423

0.00 0.00 0.00 0.00 0.00 0.00

SUBTOTAL: 164.20
TOTAL
=====

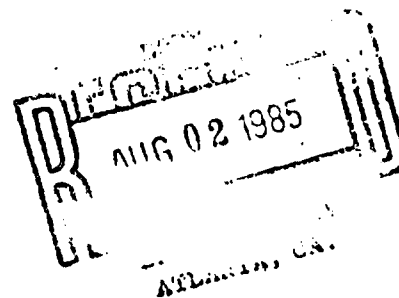
On-Scene Coordinator's Certification

I certify to the best of my knowledge and belief that the services shown on the invoice have been performed and are accepted.

8/13/85

Date

Shane Wilchord
On-Scene Coordinator





INVOICE

HAZARDOUS WASTE TECHNOLOGY SERVICES

3300 Marjan Drive
Atlanta, Ga. 30340
Phone (404) 451-9877

Please Mail Remittance to:
P.O. 65278
Charlotte, N.C. 28265
Please return one copy
of invoice with payment

YOUR CONTRACT NO.	YOUR ORDER NO.	YOUR JOB NO.	INDIVIDUAL AUTHORIZING WORK	DATE	INVOICE NO.
68-01-6859	6859-04-051		SHANE HITCHCOCK	(2) 2/25/85	A00369

MAILING ADDRESS:

INVOICED AND CHARGED TO THE ACCOUNT OF:

EPA, FINANCIAL MANAGEMENT DIVISION
CONTRACTS, FINANCIAL OPERATIONS AND
INFORMATION SECTION (MD 32)
RESEARCH TRIANGLE PARK, NC 27711

Terms: Net 30 Days

OUR DEPT. NO.	OUR JOB NO.	JOB NAME OR SERVICE RENDERED
321- 1,833.72	321-85-015	FT OGLETHORPE DALTON, GA

COST SUMMARY:

TOTAL FROM 1900-55 FORMS -----\$4,817.17
(see exhibit - page 2)

TOTAL ADJUSTMENTS -----\$ 16.55
(see exhibit - page 2)

TOTAL THIS INVOICE \$4,833.72

**** NOTE EPA INVOICE NO IS : 85-015-1

CLIENT'S

EXHIBIT TO INVOICEINVOICE NO. A00366DATE 2/25/85PAGE 2 OF 2

<u>DATE</u>	<u>PERSONNEL</u>	<u>EQUIPMENT</u>	<u>MATERIALS</u>	<u>SUBCONTRACT</u>	<u>DAILY TOTAL</u>
1/25/85	1292.00	772.00	97.27		2161.27
1/26/85	917.00	235.50			1152.50
1/31/85	<u>786.00</u>	<u>304.00</u>	<u>413.40</u>		<u>1503.40</u>
TOTAL					
1900-55					
FORMS	2995.00	1311.50	510.67		4817.17

ADJUSTMENTS:UNDERCHARGES:

1/25/85	EMERGENCY RESPONSE VAN	8.00		
1/25/85	VISQUEEN	2.65		
1/25/85	STAINLESS STEEL PANS	1.00		
1/25/85	4FT 16MM GLASS TUBES	.40		
1/26/85	EMERGENCY RESPONSE VAN	<u>4.50</u>		
	TOTAL UNDERCHARGES		<u>16.55</u>	
TOTAL ADJUSTMENTS				<u>16.55</u>
TOTAL THIS INVOICE				<u>\$4833.72</u>

CLIENT'S

Contract No. 68-01-6859 ✓

Delivery Order No. A00369

On-Scene Coordinator's Certification

I certify to the best of my knowledge and belief that the services shown on the invoice have been performed and are accepted.

3-7-85
Date

A. Shane Hitchcock
On-Scene Coordinator

[illegible]

CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT						CONTRACTOR HAZTECH		CONTRACT NUMBER 68-01-6859	
						ASSIGNMENT NUMBER 6859-04-051		DATE 2/8/85	
9. EQUIPMENT USED	10. HOURS USED		11. COST PER HOUR	12. TOTAL HOURS	13. TOTAL COST	15. MATERIALS USED	16. QUANTITY	17. TOTAL COST	
	FROM	TO							
PICK-UP TRUCK	0730	1730	7	10	55				
MILEAGE - 15 X 240					36				
BARREL CART	1300	1400	2		2				
14. TOTAL EQUIPMENT COSTS				\$	93 ⁰⁰	18. TOTAL MATERIAL COSTS		\$	

SUBCONTRACTOR REPORT				CONTRACTOR HATTECH		CONTRACT NUMBER 68-01-6859	
				ASSIGNMENT NUMBER 6859-04-051		DATE 2/5/85	
19. SUBCONTRACTOR NAME	20. WORK DESCRIPTION	21. SUBCONTRACT AMOUNT	23. REMARKS				
ST JOSEPHS I	TRANSPORTATION OF DRUMS	AWAIT B.II					
CHEM WASTE	DISPOSAL	AWAIT B.II	25. TOTAL ESTIMATED CONTRACT COSTS TO DATE				
22. TOTAL SUBCONTRACT COSTS			\$		26. TOTAL ESTIMATED COSTS TO COMPLETE CONTRACT		
I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors which I ordered and authorized from the contractor in the performance of the above-cited contract.				I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors provided by the contractor in the performance of the above-cited contract.			
Signature of OSC Representative A. Shane Hitchcock		Time Arrived on Scene	Time Departed	Signature of Contractor's Authorized Representative Don O'Leary		Date 3/10/85	

INSTRUCTIONS FOR COMPLETING EPA FORM 1900-55
(to be completed by Contractor Representative)

A. GENERAL

Contractor Block — Enter the name of the contractor.

Contract No. Block — Enter the contract number from the contract document.

Assignment No. Block — When applicable, enter the specific work assignment number provided by the On-Scene Coordinator.

Date Block — Enter the month, day, and year the report is prepared.

B. CONTRACTOR PERSONNEL REPORT (Page 1 of 4)

Block 1 — Enter the name of each employee whose services will be directly charged to the contract for the particular day.

Block 2 — Enter the work classification of each employee listed in Block 1.

Block 3 — Enter the hourly labor rate (regular and overtime) of each employee listed in Block 1.

Block 4 — Enter the time each employee from Block 1 arrived at and departed from the work site.

Block 5 — Enter the amount of break time taken by each employee listed in Block 1.

Block 6 — Enter the number of hours, regular and overtime, worked during the day by each employee listed in Block 1 (exclude break time).

Block 7 — Enter the travel and subsistence costs incurred the particular day by each employee listed in Block 1.

Block 8 — Enter the total personnel expenses to be directly charged to the contract for the particular day.

C. CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT (Page 2 of 4)

Block 9 — Enter a brief description of the equipment used for the particular day.

Block 10 — Enter the time of day during which each item of equipment listed in Block 9 was used.

Block 11 — Enter the hourly charge for use of the equipment listed in Block 9.

Block 12 — Enter the total hours the equipment from Block 9 was in use for the particular day.

Block 13 — Enter the charges for the day for use of the equipment listed in Block 9.

Block 14 — Enter the total equipment charges incurred for the day.

Block 15 — List the materials used during the day.

Block 16 — Enter the quantity of materials from Block 15 used during the particular day.

Block 17 — Enter the costs for the quantity of materials listed in Block 16.

Block 18 — Enter the total material costs incurred for the day.

D. SUBCONTRACTOR REPORT (Page 3 of 4)

Block 19 — Enter the names of subcontractors employed for the particular day.

Block 20 — Enter a brief description of the services provided during the day by each subcontractor listed in Block 19.

Block 21 — Enter the amount of costs incurred for the day by each subcontractor listed in Block 19.

Block 22 — Enter the total subcontract costs incurred for the day.

Block 23 — Enter any appropriate remarks.

Block 24 — Enter the dollar amount of the contract.

Block 25 — Enter the estimated amount of total costs incurred as of the date of the report.

Block 26 — Enter the estimated amount of total costs to complete the contract.

Certification Statement — Sign and date the report. Submit it to the On-Scene Coordinator or his/her representative.

CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT

CONTRACTOR

HAZTECH

CONTRACT NUMBER

68-01-6859

ASSIGNMENT NUMBER

6859-04-051

DATE

1/31/85

9. EQUIPMENT USED	10. HOURS USED		11. COST PER HOUR	12. TOTAL HOURS	13. TOTAL COST	15. MATERIALS USED	16. QUANTITY	17. TOTAL COST
	FROM	TO						
PICK-UP	0630	1530	7	9	55.00	QUART JAR (MASON TYPE	6	3.90
MILEAGE 120 x 15					18.00	OVERPACKS 85 GALL	4	378.00
PICK-UP	0630	1530	7	9	55.00	OIL DRY	250 lb	31.50
MILEAGE 120 x 15					18.00			
EQUIPMENT TR	0630	1530	26/MY	9	26			
PPE LEVEL C					132.00			
14. TOTAL EQUIPMENT COSTS					\$ 304.00	18. TOTAL MATERIAL COSTS		
						\$ 413.40		

SUBCONTRACTOR REPORT

CONTRACTOR

HAZBOH

CONTRACT NUMBER

68-01-6859

ASSIGNMENT NUMBER

6839-04-051

DATE

1/31/85

19. SUBCONTRACTOR NAME	20. WORK DESCRIPTION	21. SUBCONTRACT AMOUNT	23. REMARKS
FEDERAL EXPRESS a		AWAIT BILL	
22. TOTAL SUBCONTRACT COSTS			\$
24. CONTRACT CEILING AMOUNT			\$10,000 ²²
25. TOTAL ESTIMATED CONTRACT COSTS TO DATE			\$4817.17
26. TOTAL ESTIMATED COSTS TO COMPLETE CONTRACT			\$5182.83
I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors which I ordered and authorized from the contractor in the performance of the above-cited contract.			I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors provided by the contractor in the performance of the above-cited contract.
Signature of OSC Representative	Time Arrived on Scene	Time Departed	Signature of Contractor's Authorized Representative
<i>D. Stone Hetcher</i>			<i>D. Stone Hetcher</i>
			Date
			1/31/85

INSTRUCTIONS FOR COMPLETING EPA FORM 1900-55
(to be completed by Contractor Representative)

A. GENERAL

Contractor Block — Enter the name of the contractor.

Contract No. Block — Enter the contract number from the contract document.

Assignment No. Block — When applicable, enter the specific work assignment number provided by the On-Scene Coordinator.

Date Block — Enter the month, day, and year the report is prepared.

B. CONTRACTOR PERSONNEL REPORT (Page 1 of 4)

Block 1 — Enter the name of each employee whose services will be directly charged to the contract for the particular day.

Block 2 — Enter the work classification of each employee listed in Block 1.

Block 3 — Enter the hourly labor rate (regular and overtime) of each employee listed in Block 1.

Block 4 — Enter the time each employee from Block 1 arrived at and departed from the work site.

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Block 6 — Enter the number of hours, regular and overtime, worked during the day by each employee listed in Block 1 (exclude break time).

Block 7 — Enter the travel and subsistence costs incurred the particular day by each employee listed in Block 1.

Block 8 — Enter the total personnel expenses to be directly charged to the contract for the particular day.

C. CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT (Page 2 of 4)

Block 9 — Enter a brief description of the equipment used for the particular day.

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Block 13 — Enter the charges for the day for use of the equipment listed in Block 9.

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Block 15 — List the materials used during the day.

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Block 18 — Enter the total material costs incurred for the day.

D. SUBCONTRACTOR REPORT (Page 3 of 4)

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Block 23 — Enter any appropriate remarks.

Block 24 — Enter the dollar amount of the contract.

Block 25 — Enter the estimated amount of total costs incurred as of the date of the report.

Block 26 — Enter the estimated amount of total costs to complete the contract.

Certification Statement — Sign and date the report. Submit it to the On-Scene Coordinator or his/her representative.

HAZTECH

68-01-6859

6859-04-051

E
1/26/85

167.00	
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917⁰⁰

CONTRACT NUMBER

CONTRACT NUMBER
68-01-6859

DATE

1	26	85
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EPA Form 1900-55 (1-82)

Page 2 of 4

SUBCONTRACTOR REPORT				CONTRACTOR HAZTECH		CONTRACT NUMBER 68-01-6859		
				ASSIGNMENT NUMBER 6859-04-051		DATE 1/26/85		
19. SUBCONTRACTOR NAME	20. WORK DESCRIPTION	21. SUBCONTRACT AMOUNT	23. REMARKS					
/								
22. TOTAL SUBCONTRACT COSTS			\$	24. CONTRACT CEILING AMOUNT				\$ 10,000 ⁰⁰
				25. TOTAL ESTIMATED CONTRACT COSTS TO DATE				\$ 3313.77
				26. TOTAL ESTIMATED COSTS TO COMPLETE CONTRACT				\$ 6686.23
I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors which I ordered and authorized from the contractor in the performance of the above-cited contract.				I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors provided by the contractor in the performance of the above-cited contract.				
Signature of OSC Representative <i>A. Stone Hetcher</i>		Time Arrived on Scene	Time Departed	Signature of Contractor's Authorized Representative <i>[Signature]</i>		Date 1/31/85		

INSTRUCTIONS FOR COMPLETING EPA FORM 1900-55
(to be completed by Contractor Representative)

A. GENERAL

Contractor Block — Enter the name of the contractor.

Contract No. Block — Enter the contract number from the contract document.

Assignment No. Block — When applicable, enter the specific work assignment number provided by the On-Scene Coordinator.

Date Block — Enter the month, day, and year the report is prepared.

B. CONTRACTOR PERSONNEL REPORT (Page 1 of 4)

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Block 24 — Enter the dollar amount of the contract.

Block 25 — Enter the estimated amount of total costs incurred as of the date of the report.

Block 26 — Enter the estimated amount of total costs to complete the contract.

Certification Statement — Sign and date the report. Submit it to the On-Scene Coordinator or his/her representative.

US ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS SUBSTANCE RESPONSE FUND CONTRACTOR COST REPORT						CONTRACTOR HAZTECH		CONTRACT NUMBER 68-01-6859		
CONTRACTOR PERSONNEL REPORT						ASSIGNMENT NUMBER 6859-04-051		DATE 1/25/85		
1. EMPLOYEES ASSIGNED	2. WORK CLASSIFICATION	3. HOURLY LABOR RATE		4. HOURS EMPLOYED		5. BREAK TIME	6. TOTAL HOURS		7. TRAVEL AND SUBSISTENCE COSTS	8. TOTAL PERSONNEL COSTS
		REGULAR	OVERTIME	FROM	TO		REGU-LAR	OVER-TIME		
DAN CLINGAN	FOREMAN L3	33	45	1630	1700	-	.5			16.50
				1700	2400			7		315.00
JACK STOTT	CLEAN-UP TECH L2	24	35	1630	1700		.5			12.00
				1700	2400			7		245.00
ARI TIPPIT	CLEAN-UP TECH L1	21	32	1630	1700		.5			10.50
				1700	2400			7		224.00
SAM COOKE	CLEAN-UP TECH L1	21	32	1630	1700		.5			10.50
				1700	2400			7		224.00
DOUG LANGLEY	CLEAN-UP TECH L1	21	32	1630	1700		.5			10.50
				1700	2400			7		224.00
								TOTAL PERSONNEL COSTS		1292.00

CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT

CONTRACTOR
HAZTECH
ASSIGNMENT NUMBER
6859-04

CONTRACT NUMBER
68-01-6859
DATE
1/25/85

9. EQUIPMENT USED	10. HOURS USED		11. COST PER HOUR	12. TOTAL HOURS	13. TOTAL COST	15. MATERIALS USED	16. QUANTITY	17. TOTAL COST
	FROM	TO						
EMERGENCY RESP VAN	1630	2400		7.5	157.00	VISQUEEN	1	65.60
MILEAGE .35X120					72	DUCT TAPE	2	10.50
PICK-UP	1630	2400		7.5	52.50	QUART JARS (MASON)	5	3.25
MILEAGE .15X120					18.00	4 FT 16 mm GLASS TUBES	20	8.20
EQUIPMENT TR	1630	2400		7.5	26.00	STAINLESS STEEL SPOON	3	9.72
PICK-UP	1630	2400			52.50			
MILEAGE .15X120					18.00			
2-LEVEL B	2100	2400			330.00			
1-LEVEL C					66.00			
STAINLESS STEEL PAN					10.00			
14. TOTAL EQUIPMENT COSTS				\$	772.00	18. TOTAL MATERIAL COSTS		
						\$		
						97.27		

SUBCONTRACTOR REPORT

CONTRACTOR

HAZTECH

CONTRACT NUMBER

68-01-6859

ASSIGNMENT NUMBER

6859-04-051

DATE

1/25/85

19. SUBCONTRACTOR NAME

20. WORK DESCRIPTION

21. SUBCONTRACT
AMOUNT

23. REMARKS

24. CONTRACT CEILING AMOUNT

\$1000.00

25. TOTAL ESTIMATED CONTRACT COSTS TO DATE

\$2161.27

22. TOTAL SUBCONTRACT COSTS

\$

26. TOTAL ESTIMATED COSTS TO COMPLETE CONTRACT

\$ 7838.73

I certify that this report is a true and complete record of the labor, supervision, travel, equipment, materials, and subcontractors which I ordered and authorized from the contractor in the performance of the above-cited contract.

Signature of DSE Representative

Time Arrived on
Scene

Time Departed

Signature of Contractor's Authorized Representative

Date

INSTRUCTIONS FOR COMPLETING EPA FORM 1900-55
(to be completed by Contractor Representative)

A. GENERAL

Contractor Block — Enter the name of the contractor.

Contract No. Block — Enter the contract number from the contract document.

Assignment No. Block — When applicable, enter the specific work assignment number provided by the On-Scene Coordinator.

Date Block — Enter the month, day, and year the report is prepared.

B. CONTRACTOR PERSONNEL REPORT (Page 1 of 4)

Block 1 — Enter the name of each employee whose services will be directly charged to the contract for the particular day.

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C. CONTRACTOR-OWNED EQUIPMENT/MATERIALS REPORT (Page 2 of 4)

Block 9 — Enter a brief description of the equipment used for the particular day.

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D. SUBCONTRACTOR REPORT (Page 3 of 4)

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Block 26 — Enter the estimated amount of total costs to complete the contract.

Certification Statement — Sign and date the report. Submit it to the On-Scene Coordinator or his/her representative.

UNSCANNABLE

MEDIA

(PHOTOGRAPHS)